


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> 7-8-46 BTR				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> ALTAMONT				
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>				
<b>6. NAME OF OPERATOR</b> BILL BARRETT CORP						<b>7. OPERATOR PHONE</b> 303 312-8164				
<b>8. ADDRESS OF OPERATOR</b> 1099 18th Street Ste 2300, Denver, CO, 80202						<b>9. OPERATOR E-MAIL</b> BHilgers@billbarrettcorp.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> 2OG0005608			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b> Uintah and Ouray			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		1958 FNL 1979 FEL		SWNE	8	4.0 S	6.0 W	U		
Top of Uppermost Producing Zone		1958 FNL 1979 FEL		SWNE	8	4.0 S	6.0 W	U		
At Total Depth		1958 FNL 1979 FEL		SWNE	8	4.0 S	6.0 W	U		
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1979			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640				
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 3000			<b>26. PROPOSED DEPTH</b> MD: 7622 TVD: 7622				
<b>27. ELEVATION - GROUND LEVEL</b> 5969			<b>28. BOND NUMBER</b> LPM8874725			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-180				
<b>Hole, Casing, and Cement Information</b>										
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
Cond	26	16	0 - 80	65.0	Unknown	8.8	No Used	0	0.0	0.0
Surf	12.25	9.625	0 - 1100	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown	120	3.16	11.0
							Halliburton Premium , Type Unknown	210	1.36	14.8
Prod	8.75	9.625	0 - 7622	17.0	P-110 LT&C	9.6	Unknown	630	2.31	11.0
							Unknown	860	1.42	13.5
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<b>NAME</b> Venessa Langmacher				<b>TITLE</b> Senior Permit Analyst			<b>PHONE</b> 303 312-8172			
<b>SIGNATURE</b>				<b>DATE</b> 08/30/2012			<b>EMAIL</b> vlangmacher@billbarrettcorp.com			
<b>API NUMBER ASSIGNED</b> 43013517020000				<b>APPROVAL</b>  Permit Manager						

**BILL BARRETT CORPORATION**  
**DRILLING PLAN**

1/04/2011

**7-8-46 BTR**

SW NE, 1958' FNL and 1979' FEL, Section 8, T4S-R6W, USB&M  
Duchesne County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth - TVD</u>
Lower Green River*	3,262'	3,262'
Douglas Creek	4,087'	4,087'
Black Shale	4,927'	4,927'
Castle Peak	5,147'	5,147'
Uteland Butte	5,462'	5,462'
Wasatch*	5,702'	5,702'
TD	7,622'	7,622'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 5,500'

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 1,100'	No pressure control required
1,100' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1,100'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
Drilling Program  
7-8-46 BTR  
Duchesne County, Utah

## 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 120 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 600'
5 1/2" Production Casing	Lead: 630 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 600' Tail: 860 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 4,427'

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 1,100'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
1,100' – TD	8.6 – 9.6	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

## 7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

## 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3804 psi\* and maximum anticipated surface pressure equals approximately 2128 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

Bill Barrett Corporation  
Drilling Program  
7-8-46 BTR  
Duchesne County, Utah

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
  - b) Inside BOP or stab-in valve (available on rig floor)
  - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W water right number 43-180.

**11. Drilling Schedule**

Location Construction:	November 2013
Spud:	November 2013
Duration:	15 days drilling time
	45 days completion time



# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

**Well Name:** 7-8-46 BTR

### Surface Hole Data:

Total Depth:	1,100'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	328.8	ft <sup>3</sup>
Lead Fill:	600'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	120
--------------	-----

Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	600'	

# SK's Tail:	210
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### Production Hole Data:

Total Depth:	7,622'
Top of Cement:	600'
Top of Tail:	4,427'
OD of Hole:	8.750"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1450.0	ft <sup>3</sup>
Lead Fill:	3,827'	
Tail Volume:	1210.7	ft <sup>3</sup>
Tail Fill:	3,195'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	630
# SK's Tail:	860

<b>7-8-46 BTR Proposed Cementing Program</b>
--

<u>Job Recommendation</u>	<u>Surface Casing</u>		
<b>Lead Cement - (600' - 0')</b>			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	600'	
	Volume:	58.57	bbl
	<b>Proposed Sacks:</b>	<b>120</b>	<b>sks</b>
<b>Tail Cement - (TD - 600')</b>			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft <sup>3</sup> /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	600'	
	Calculated Fill:	500'	
	Volume:	48.80	bbl
	<b>Proposed Sacks:</b>	<b>210</b>	<b>sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>		
<b>Lead Cement - (4427' - 600')</b>			
Tuned Light™ System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft³/sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	600'	
	Calculated Fill:	3,827'	
	Volume:	258.24	bbl
	<b>Proposed Sacks:</b>	<b>630</b>	<b>sks</b>
<b>Tail Cement - (7622' - 4427')</b>			
Econocem™ System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft³/sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk
	Top of Fluid:	4,427'	
	Calculated Fill:	3,195'	
	Volume:	215.61	bbl
	<b>Proposed Sacks:</b>	<b>860</b>	<b>sks</b>

T4S, R6W, U.S.B.&M.

BILL BARRETT CORPORATION

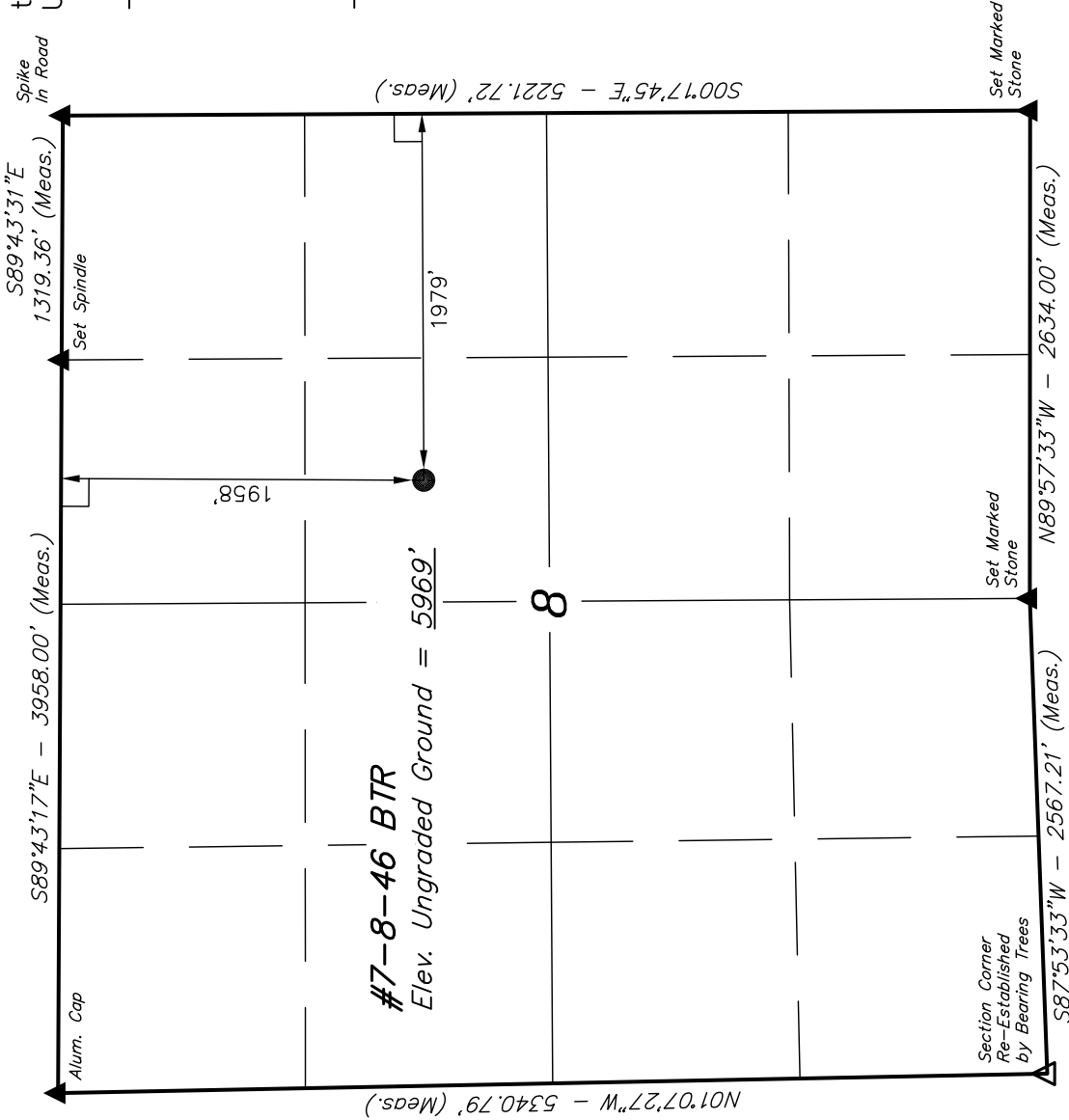
Well location, #7-8-46 BTR, located as shown in the SW 1/4 NE 1/4 of Section 8, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



N01°07'27"W - 5340.79' (Meas.)

S89°43'31"E 1319.36' (Meas.)

S89°43'17"E - 3958.00' (Meas.)

S87°53'33"W - 2567.21' (Meas.)

N89°57'33"W - 2634.00' (Meas.)

S00°17'45"E - 5221.72' (Meas.)

1979'

1558'

#7-8-46 BTR

Elev. Ungraded Ground = 5969'

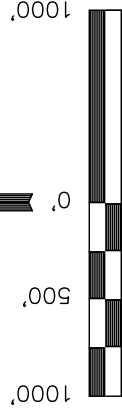
Set Marked Stone

Set Marked Stone

Section Corner Re-Established by Bearing Trees

Set Spindle

Spike In Road



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE POINT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY CLOSE SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH  
05-27-11

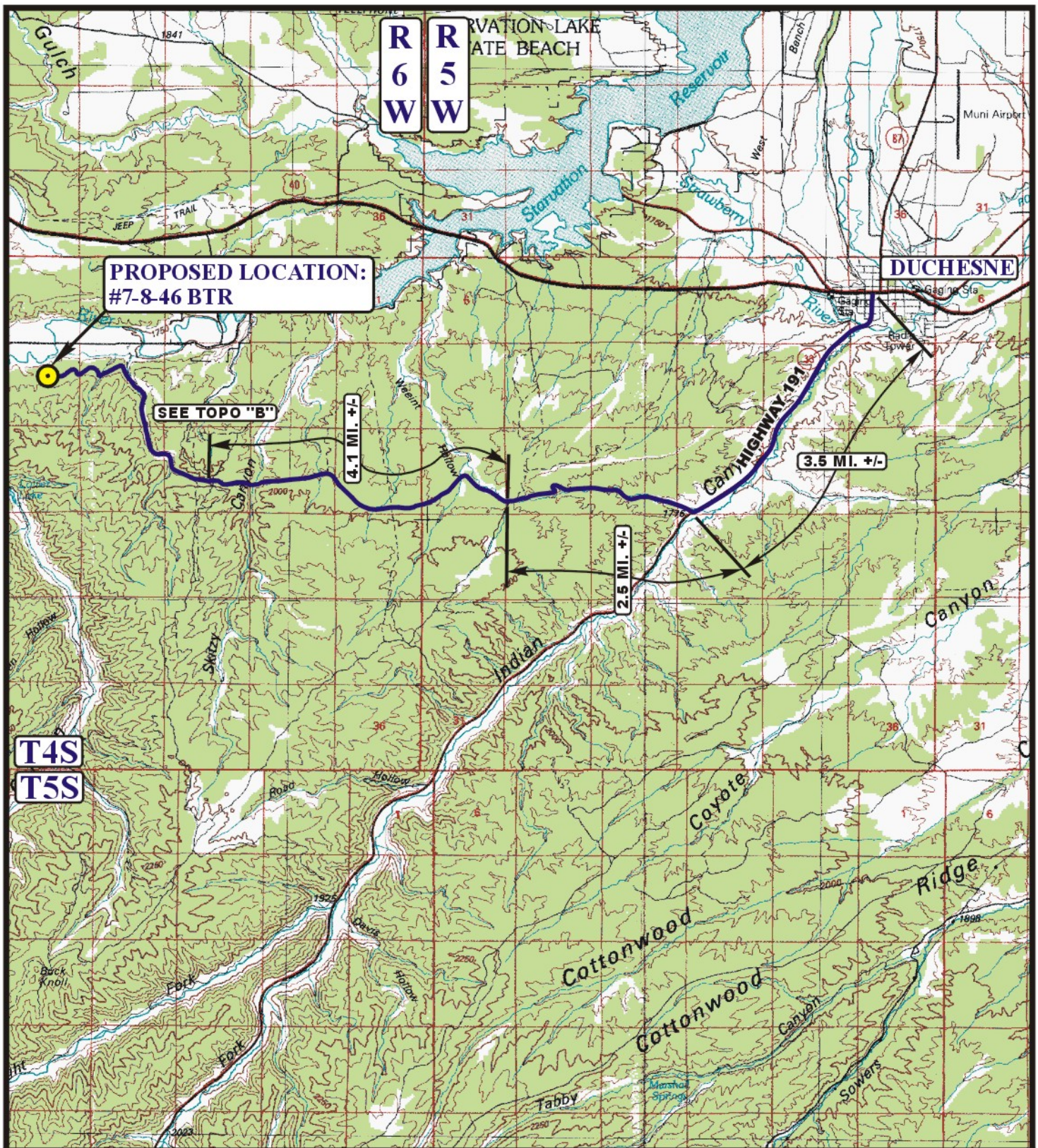
UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

LEGEND:

- = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.
  - △ = SECTION CORNERS RE-ESTABLISHED.  
(Not Set on Ground.)
- LATITUDE = 40°08'57.26" (NAD 83) (40.149239)  
LONGITUDE = 110°35'04.33" (110.584536)  
(NAD 27)  
LATITUDE = 40°08'57.41" (40.149281)  
LONGITUDE = 110°35'01.77" (110.583825)

SCALE 1" = 1000'	DATE SURVEYED: 04-14-11	DATE DRAWN: 04-19-11
PARTY G.M. J.R. C.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE	BILL BARRETT CORPORATION





**LEGEND:**

PROPOSED LOCATION

**BILL BARRETT CORPORATION**

**#7-8-46 BTR**  
**SECTION 8, T4S, R6W, U.S.B.&M.**  
**1958' FNL 1979' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC**  
**MAP**

**04 15 11**  
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: J.J.

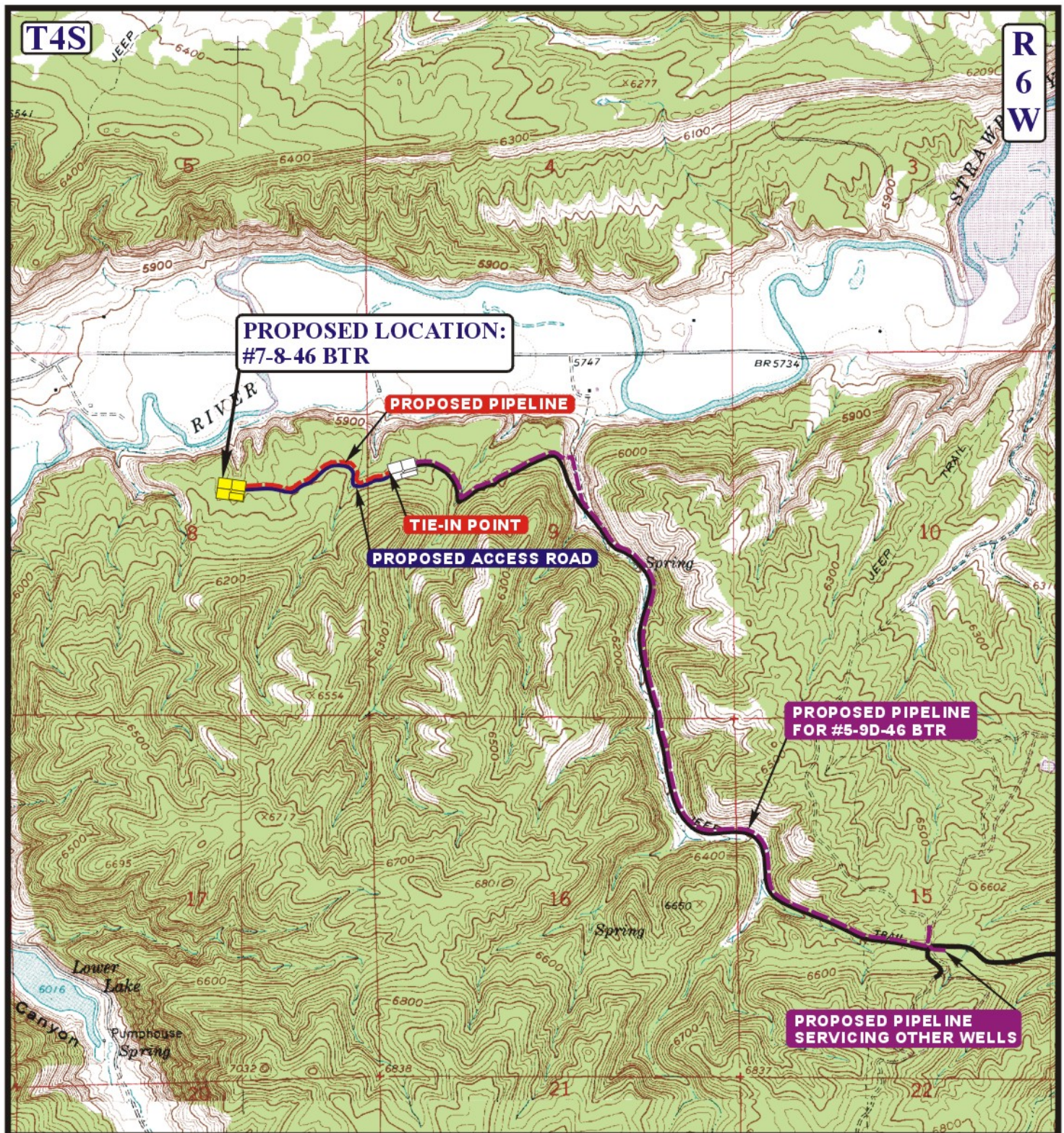
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**APPROXIMATE TOTAL PIPELINE DISTANCE = 2,470' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



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**BILL BARRETT CORPORATION**

**#7-8-46 BTR**  
**SECTION 8, T4S, R6W, U.S.B.&M.**  
**1958' FNL 1979' FEL**

**TOPOGRAPHIC**  
**MAP**

**04 15 11**  
 MONTH DAY YEAR

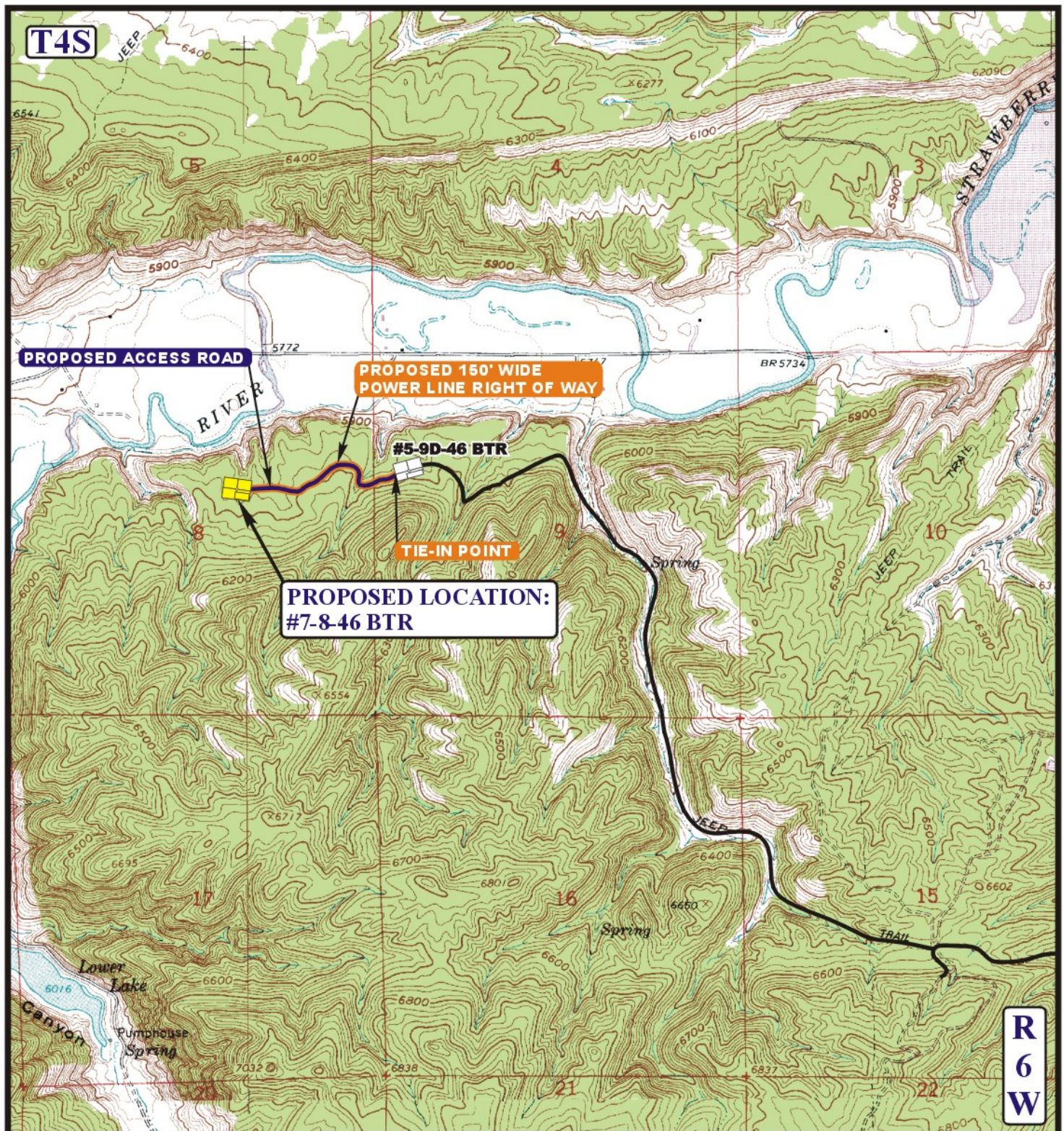
SCALE: 1" = 2000'

DRAWN BY: J.J.

REVISED: 00-00-00







APPROXIMATE TOTAL POWER LINE DISTANCE = 2,479' +/-

**LEGEND:**

 PROPOSED ACCESS ROAD  
 EXISTING POWERLINE  
 PROPOSED POWER LINE

**BILL BARRETT CORPORATION**

#7-8-46 BTR  
 SECTION 8, T4S, R6W, U.S.B.&M.  
 1958' FNL 1979' FEL



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**TOPOGRAPHIC**  
**MAP**

12 05 11  
 MONTH DAY YEAR

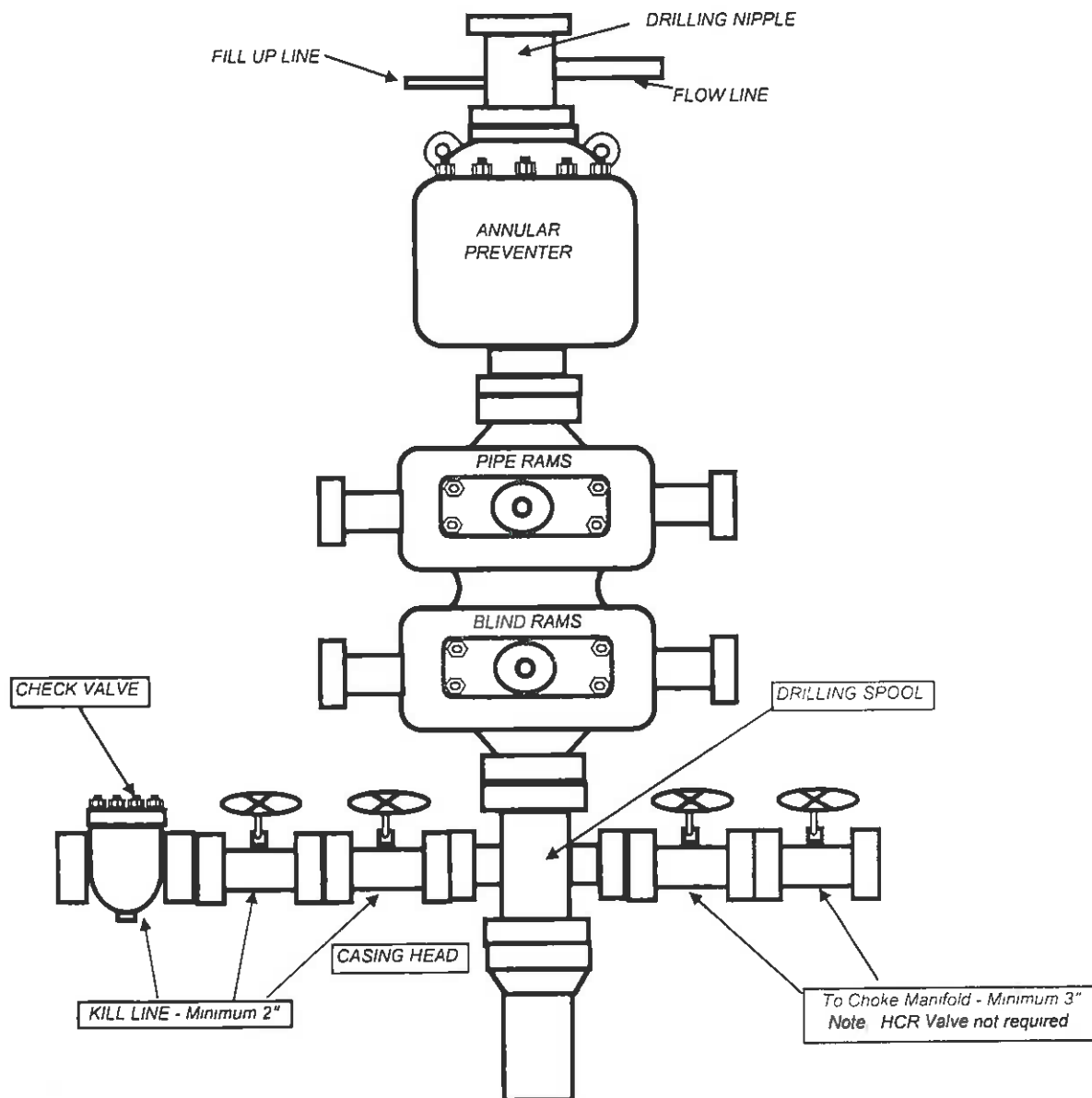
SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 00-00-00

**D**  
**TOPO**



## BILL BARRETT CORPORATION

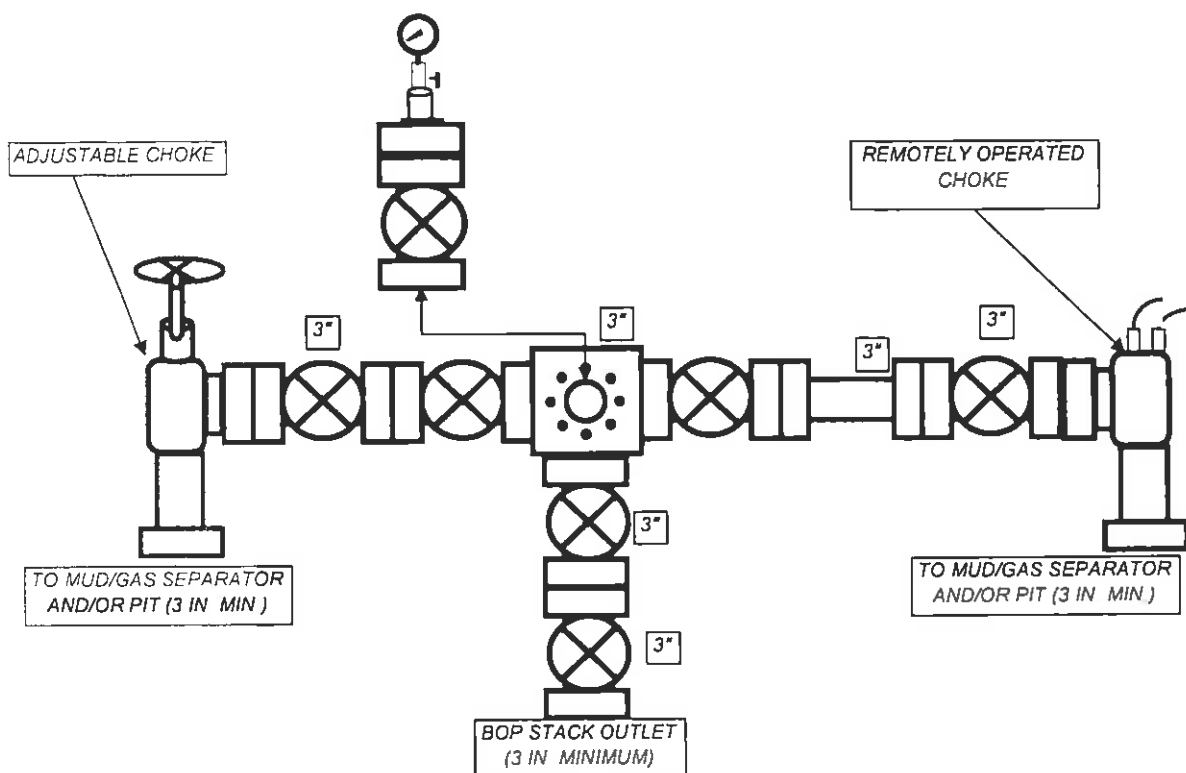
### TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER





# BILL BARRETT CORPORATION

## TYPICAL 5,000 p.s.i. CHOKE MANIFOLD



## BILL BARRETT CORPORATION

## LOCATION LAYOUT FOR

#7-8-46 BTR

SECTION 8, T4S, R6W, U.S.B.&amp;M.

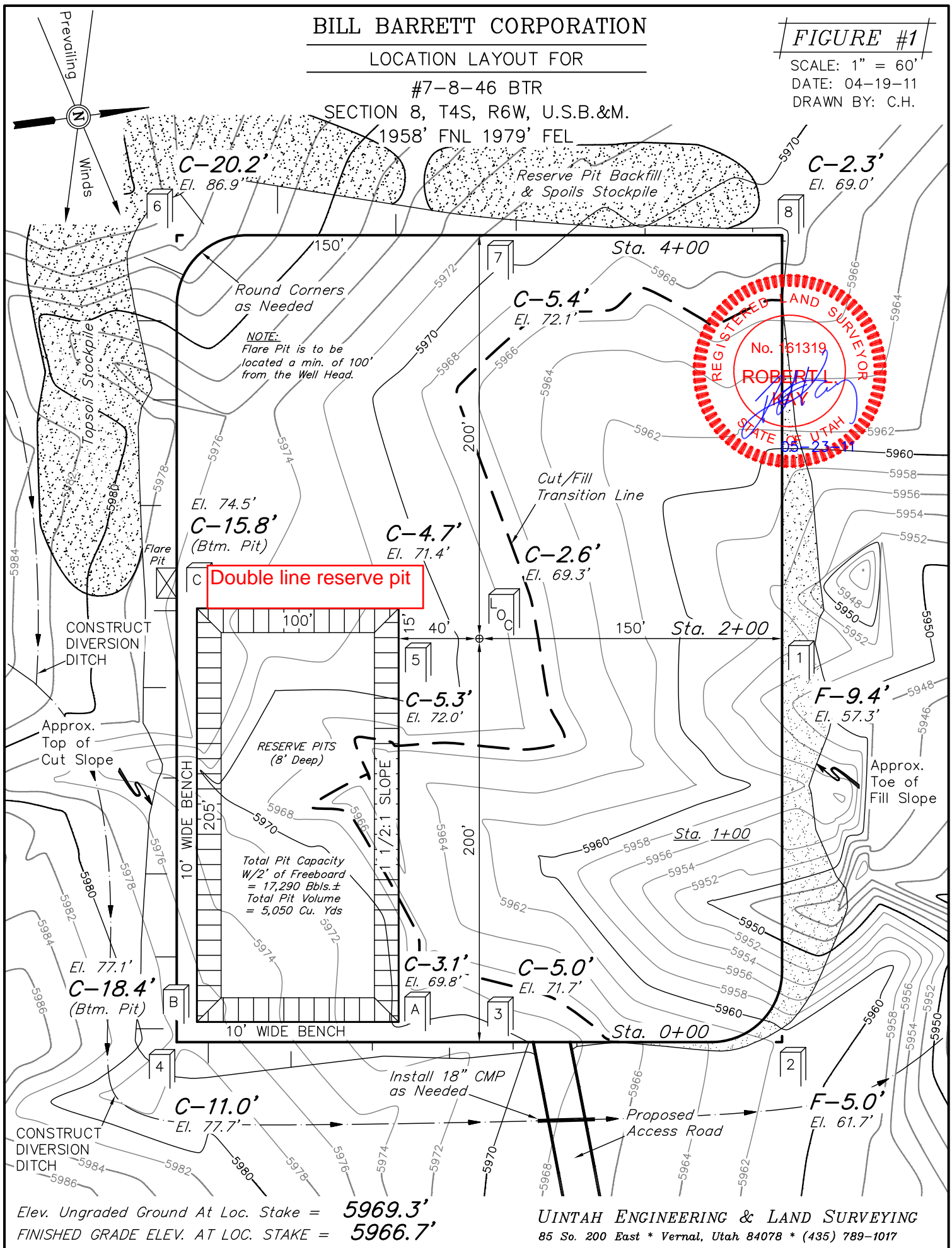
1958' FNL 1979' FEL

FIGURE #1

SCALE: 1" = 60'

DATE: 04-19-11

DRAWN BY: C.H.



RECEIVED: August 30, 2012

## BILL BARRETT CORPORATION

## TYPICAL CROSS SECTIONS FOR

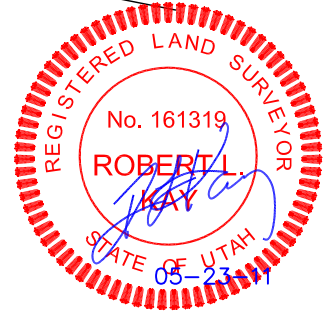
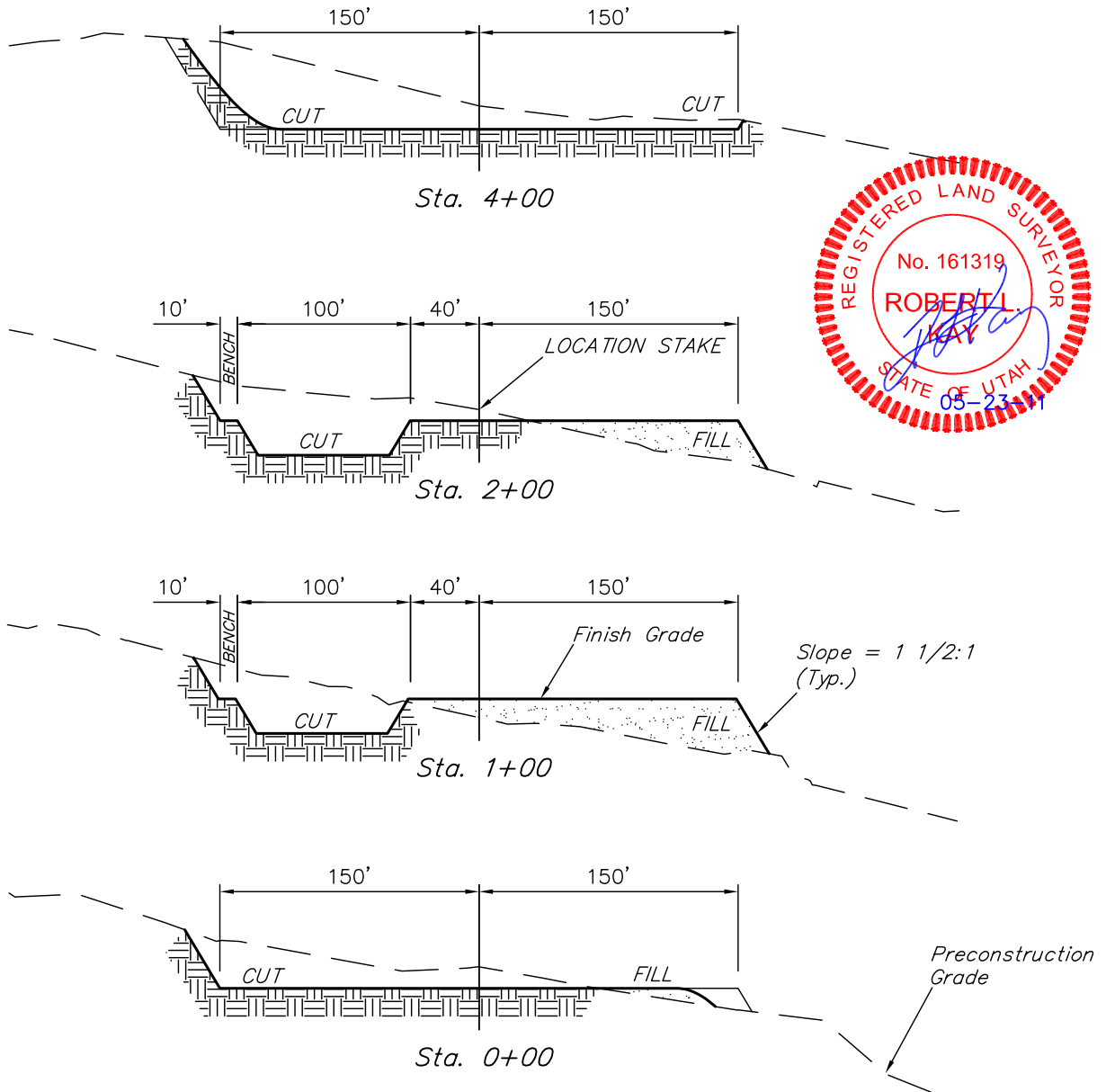
#7-8-46 BTR

SECTION 8, T4S, R6W, U.S.B.&amp;M.

1958' FNL 1979' FEL

FIGURE #2

1" = 40'  
X-Section  
Scale  
1" = 100'  
DATE: 04-19-11  
DRAWN BY: C.H.



## NOTE:

Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

## APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 3.616 ACRES  
ACCESS ROAD DISTURBANCE = ± 1.666 ACRES  
PIPELINE DISTURBANCE = ± 1.659 ACRES  
TOTAL = ± 6.941 ACRES

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

## APPROXIMATE YARDAGES

(12") Topsoil Stripping = 5,310 Cu. Yds.  
Remaining Location = 17,300 Cu. Yds.  
TOTAL CUT = 22,610 CU.YDS.  
FILL = 14,770 CU.YDS.

EXCESS MATERIAL = 7,840 Cu. Yds.  
Topsoil & Pit Backfill = 7,840 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

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## BILL BARRETT CORPORATION

## TYPICAL RIG LAYOUT FOR

#7-8-46 BTR

SECTION 8, T4S, R6W, U.S.B.&amp;M.

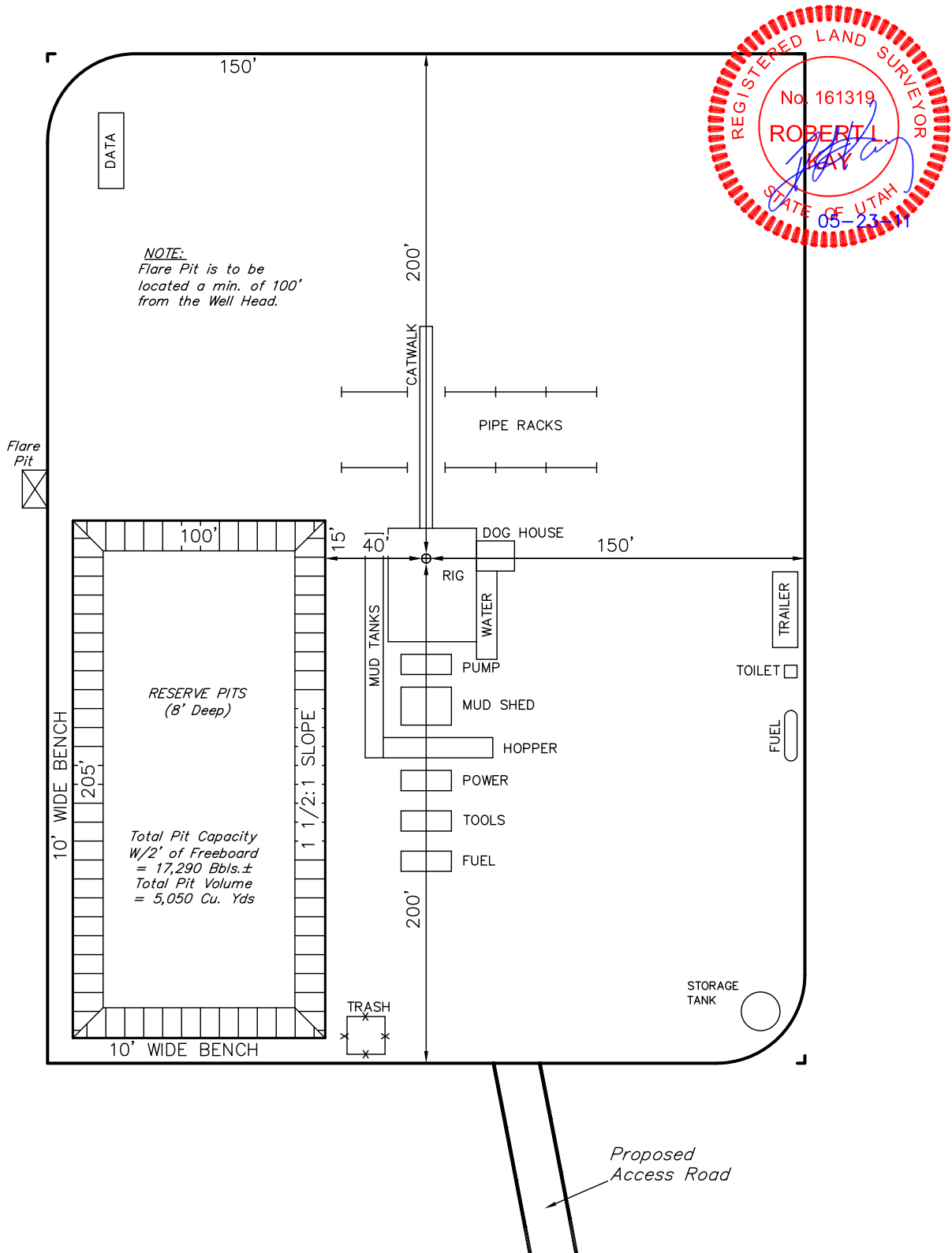
1958' FNL 1979' FEL

FIGURE #3

SCALE: 1" = 60'

DATE: 04-19-11

DRAWN BY: C.H.



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**BILL BARRETT CORPORATION****INTERIM RECLAMATION PLAN FOR**

#7-8-46 BTR

SECTION 8, T4S, R6W, U.S.B.&amp;M.

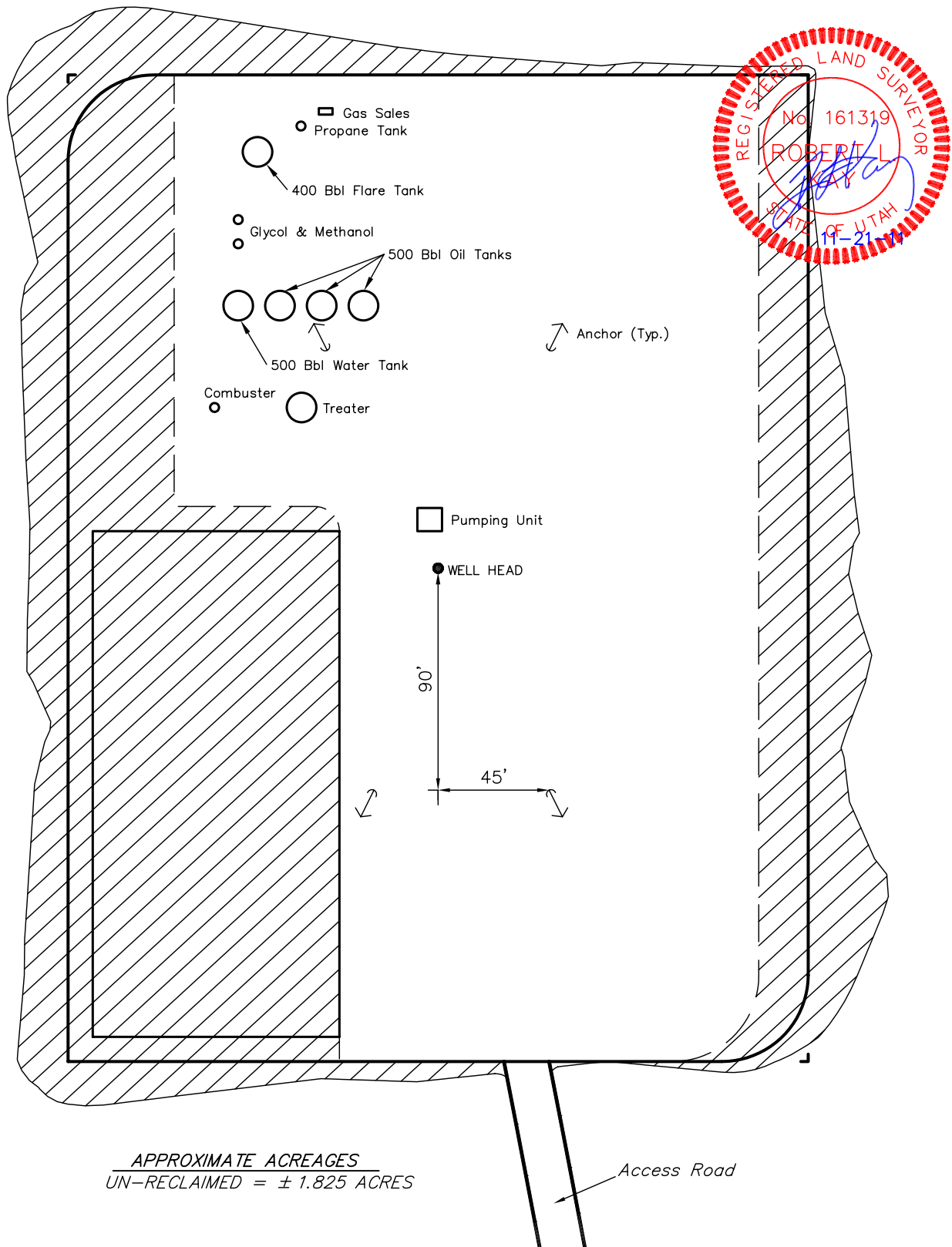
1958' FNL 1979' FEL

**FIGURE #3**

SCALE: 1" = 60'

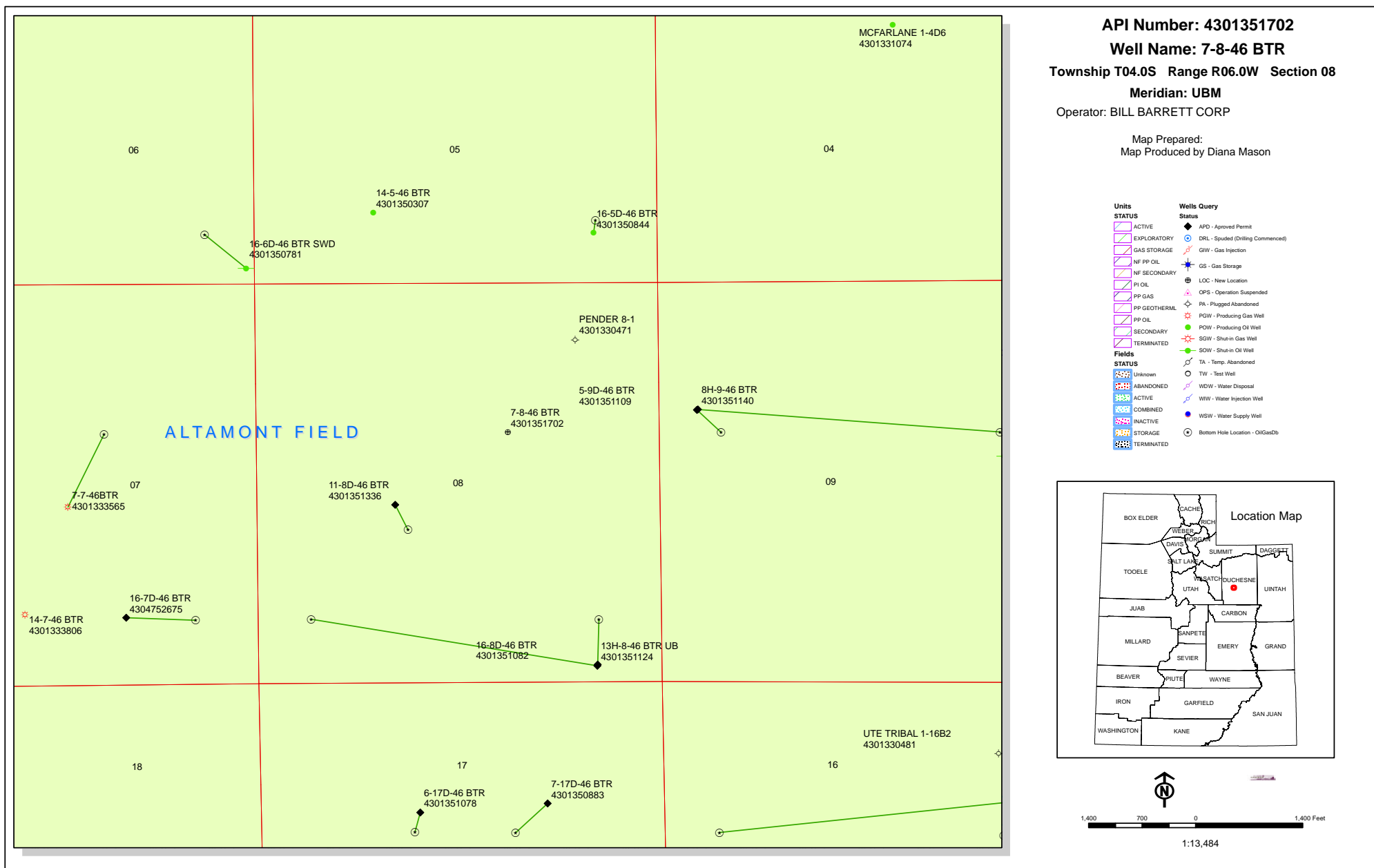
DATE: 11-21-11

DRAWN BY: J.I.



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RECEIVED: August 30, 2012



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/30/2012

API NO. ASSIGNED: 43013517020000

WELL NAME: 7-8-46 BTR

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: SWNE 08 040S 060W

Permit Tech Review: ☒

SURFACE: 1958 FNL 1979 FEL

Engineering Review: ☐

BOTTOM: 1958 FNL 1979 FEL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.14929

LONGITUDE: -110.58453

UTM SURF EASTINGS: 535387.00

NORTHINGS: 4444410.00

FIELD NAME: ALTAMONT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 2OG0005608

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: INDIAN - LPM8874725☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-180☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 139-84

Effective Date: 12/31/2008

Siting: 660' Fr Drl U Bdry &amp; 1320' Fr Other Wells

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason

RECEIVED: September 18, 2012



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** 7-8-46 BTR  
**API Well Number:** 43013517020000  
**Lease Number:** 2OG0005608  
**Surface Owner:** INDIAN  
**Approval Date:** 9/18/2012

### Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

### Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>



**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MAY 21 2012

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 20G0005608
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BILL BARRETT CORPORATION Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		8. Lease Name and Well No. 7-8-46 BTR
3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420		9. API Well No. 43-013-51702
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNE 1958FNL 1979FEL 40.149239 N Lat, 110.584536 W Lon At proposed prod. zone SWNE 1958FNL 1979FEL 40.149239 N Lat, 110.584536 W Lon		10. Field and Pool, or Exploratory ALTAMONT
14. Distance in miles and direction from nearest town or post office* 13 MILES SOUTHWEST OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 8 T4S R6W Mer UBM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1958'	16. No. of Acres in Lease 66101.00	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. NONE	19. Proposed Depth 7622 MD 7622 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5969 GL	22. Approximate date work will start 11/01/2013	17. Spacing Unit dedicated to this well 640.00
		20. BLM/BIA Bond No. on file LPM8874725
		23. Estimated duration 60 DAYS (D&C)

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312-8172	Date 05/16/2012
Title SENIOR PERMIT ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JAN 11 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

Additional Operator Remarks (see next page)

JAN 22 2013

Electronic Submission #138263 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by LESLIE ROBINSON on 05/22/2012 ( )

DIV. OF OIL, GAS &amp; MINING

NOTICE OF APPROVAL

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

12SS0951AE

NOS-1111511



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Bill Barrett Corporation  
Well No: 7-8-46 BTR  
API No: 43-013-51702

Location: SWNE, Sec. 8, T4S, R6W  
Lease No: 2OG0005608  
Agreement: N/A

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**Additional Stipulations:**

- All Production Equipment will be painted Beetle Green to help blend into the surrounding vegetation and meet VRM type objectives.
- The production equipment will be placed towards the front of the pad to maximize interim reclamation efforts on all well pads where applicable.
- Topsoil will be windrowed and be used for reclamation purposes only. Site specific reclamation plans are expected on all locations. On the 14-13D-47 BTR location it was agreed upon to relocate the topsoil resource from corners #2 & #8 to corners #7 and corners A & 2 area as stated on the well plats.
- On the 7-8-46 BTR location the reserve pit will be double lined as agreed upon during the onsite, an 18" will also be installed where the road enters the pad area, to help divert drainage and help control erosion to the access road.
- See Exhibit One of the approved EA U&O-FY13-Q1-001 for any additional mitigation measures that must be followed for this proposed action.

**General Conditions of Approval:**

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipelines.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.



- Bill Barrett Corporation will implement a "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COA's, and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Production casing cement shall be brought up and into the surface casing. The minimum cement top is 400 ft. about the surface shoe.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of

each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Uintah
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 7-8-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1958 FNL 1979 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 08 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013517020000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/1/2014</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> <b>APD EXTENSION</b> OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 This sundry is being submitted to request a one year extension one this  

APD

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: August 15, 2013

By:

<b>NAME (PLEASE PRINT)</b> Christina Hirtler	<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/14/2013	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43013517020000**

**API:** 43013517020000

**Well Name:** 7-8-46 BTR

**Location:** 1958 FNL 1979 FEL QTR SWNE SEC 08 TWP 040S RNG 060W MER U

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 9/18/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Christina Hirtler

**Date:** 8/14/2013

**Title:** Administrative Assistant **Representing:** BILL BARRETT CORP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
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<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1958 FNL 1979 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 08 Township: 04.0S Range: 06.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/3/2014	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  This well spud on 1/3/14 at 12:30 pm by Triple A Drilling; Rig #TA4037, Rig Type Soilmec SR/30. Continuous drilling operations are planned to commence on 2/21/14.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          January 07, 2014</b>		
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/6/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 7-8-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1958 FNL 1979 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 08 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013517020000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>5/18/2014</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 THIS WELL HAD FIRST PRODUCTION AND FIRST GAS SALES ON 5/18/14.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 May 22, 2014

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/19/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> 7-8-46 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43013517020000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1958 FNL 1979 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 08 Township: 04.0S Range: 06.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/2/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text" value="SSD"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached please find the SSD for this pad.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> June 03, 2014		
<b>NAME (PLEASE PRINT)</b> Brady Riley		<b>PHONE NUMBER</b> 303 312-8115
<b>SIGNATURE</b> N/A		<b>TITLE</b> Permit Analyst
		<b>DATE</b> 6/2/2014

Sundry Number: 51730 API Well Number: 43013517020000

# BILL BARRETT CORPORATION

Ute Tribal surface/minerals  
BTR 7-8-46  
SW¼ NE¼ SEC 8,T4S, R6W,  
Lease # BIA EDA 20G0005608  
API # 43-013-51702-0000  
Duchesne Co. Utah

Site Security Plan Located at  
Bill Barrett Corporation  
Roosevelt Office  
ROUTE 3 BOX 3110  
1820 W HIGHWAY 40  
ROOSEVELT, UT 84066

75'

160'

75'

70'

45'

75'

75'

45'

Underground lines

Containment 1 ft. high  
Volume 2565 BBL

W/H

Pumping Unit

Combustor

Scrubber Cap-2bbl  
water & condensate

500 Gal  
Glycol

500 gal  
Methanol

TREATER  
Cap-90bbl  
Oil & water

400bbl  
Flare tank

500bbl  
water tank

500bbl  
oil tank

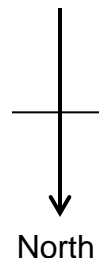
500bbl  
oil tank

500bbl  
oil tank

Meter  
Shack

EFM located in meter shack  
air gas underground  
Underground Residue line

Surface Drainage to the North from the  
East side of location.



- 1 - 4" LOAD LINE  
Production Phase – sealed closed  
Sales Phase- open to load Production bought  
**2 – 3" PRODUCTION IN**  
Production Phase – open  
Sales Phase – sealed close  
3 – 4" DRAIN  
Production Phase – sealed closed  
Sales Phase – sealed closed  
Drain water – open  
**4 – 4" UPPER EQUALIZER**  
Production Phase – open  
Sales Phase – sealed close  
5 – BYPASS  
**6 – 3" WATER LINES**  
Production Phase – open  
No Sales Phase  
**7- 2" RECYCLE/SKIM**  
Production – open  
Sales – sealed closed  
- PRV, RUPTURE DISC & FLARE LINES- tie in to flare tank  
for emergency pressure relief of treater



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 7-8-46 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013517020000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1958 FNL 1979 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 08 Township: 04.0S Range: 06.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/31/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the May 2014 Drilling Activity for this well.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 June 05, 2014

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A		DATE 6/5/2014

**07-8-46 BTR 5/12/2014 06:00 - 5/13/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDREL. NU 5" 10K FRAC VALVES. PRES TEST CSG TO 8400 PSI, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.
06:00	24.00	06:00	GOP	General Operations	HEAT FRAC LINE.

**07-8-46 BTR 5/13/2014 06:00 - 5/14/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com

**07-8-46 BTR 5/14/2014 06:00 - 5/15/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	SRIG	Rig Up/Down	ALL PERFS CORRELATED TO HES RMT/CBL DATED 4/11/14. GUNS ARE 3-1/8" EXP WITH SDP PERFECTA, 19 GR, .40" EHD, 30" PENT, 3 SPF ON 120" PHASING.  HSM. MIRU CASED HOLE. PERF STG 1-- PERF CR 4, CR 4A, AND CR 5, FORM 6574'-6834' WITH 45 HOLES IN 15' NET. SHUT IN AND SECURE WELL. MIRU HES FRAC FLEET. WELL SECURE
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	PERFORATED STAGE 1 LOCK AND SECURE WELL FOR NIGHT.

**07-8-46 BTR 5/15/2014 06:00 - 5/16/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.10	06:06	SMTG	Safety Meeting	Crew arrived on location 5:15AM had safety meeting 5:50AM discussed Red zones, smoking areas, muster areas
06:06	0.20	06:18	FRAC	Frac. Job	Primed and psi tested lines to 9,300psi.
06:18	1.00	07:18	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 200 PSI AT 06:15 BREAK DOWN 3241 PSI AT 12.3 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 2350 PSI. FLUSH W/ 6419 GAL. 30.0 BPM AT 2274 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.9 BPM AT 2718 PSI. ISDP 1701. FG .7. PERFS OPEN 43/45  PUMPED STAGE TO DESIGN.  20/40 WHITE 150,600 lbs 2.0, 3.0, 3.5, and 4.0 ppg SLK WTR 60,892 BBL, 20# HYBOR G (16) 62,046 BBL, BTR 127,338 BBLS  SHUT IN AND TURN OVER TO CASED HOLE.
07:18	1.00	08:18	WLWK	Wireline	PERF STG #2- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 1675 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6380 '-'. RUN DOWN AND SET 5-1/2" CBP AT 6544 ' WITH 1625 PSI. PULL UP AND PERF CR 3 AND CR 4 FORM 6278'-6524' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH PSI. TURN WELL OVER TO HES.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
08:18	1.00	09:18	FRAC	Frac. Job	<p>FRAC STG 2 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 600 PSI AT 8:32 BREAK DOWN 3472 PSI AT 9.8 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT PSI. FLUSH W/ 6130 GAL. 30.0 BPM AT 2200 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 69.8 BPM AT 2734 PSI. ISDP 1782 . FG .72. PERFS OPEN 45/45</p> <p>PUMPED STAGE TO DESIGN.</p> <p>20/40 WHITE 150500 lbs 2.0, 3.0, 3.5, and 4.0 ppg SLK WTR 60,485 BBL, 20# HYBOR G (16) 60,567 BBL, BTR 2975 BBLs</p> <p>SHUT IN AND TURN OVER TO CASEDHOLE.</p>
09:18	1.00	10:18	WLWK	Wireline	<p>PERF STG #3- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 1800 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 4884' - 4906'. RUN DOWN AND SET 5-1/2" CBP AT 6265' WITH 1800 PSI. PULL UP AND PERF CR 2 AND CR 3 FORM 6014'-6251' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH PSI. TURN WELL OVER TO HES.</p>
10:18	1.00	11:18	FRAC	Frac. Job	<p>FRAC STG 3 PRESSURE TEST LINES TO 9125 PSI. OPEN WELL W/ 1550 PSI AT 10:36AM BREAK DOWN 2410 PSI AT 10.2 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT PSI. FLUSH W/ 5872 GAL. BPM 30 AT 1625 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.9 BPM AT 2743 PSI. ISDP 1705 . FG .72. PERFS OPEN 44/45</p> <p>ISIP 1814, FG .73, MR 71.8 BPM, AR 71.7 BPM, MP 2820 PSI, AP 2469 PSI 20/40 WHITE 150,400 lbs 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 1424 BBL, 20# HYBOR G (16) 1,446 BBL, BTR 2,963 BBLs</p> <p>TURN OVER TO CASEDHOLE.</p>
11:18	2.00	13:18	WLWK	Wireline	<p>PERF STG #4- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 4884'-4906'. RUN DOWN AND SET 5-1/2" CBP AT 5995' WITH 1725 PSI. WENT TO PULL UP HOLE WIRELINE STILL STUCK ON PLUG HAD WIRELING KEEP TRYING TO PULL OFF OF PLUG, KEPT LINE WEIGHT UNDER 3,000LBS BLEED WELL OFF HAD THEM KEEP TRYING. HAD HES BRING PUMP RATE UP TO 5BPM TILL WE HIT 5,500LBS KICKED PUMP OUT BLEED WELL DOWN TO 2,000PSI AND WIRELINE BROKE FREE. PLUG SET AND PERFORATED ALL AS DESIGN. PULL UP AND PERF WASATCH, AND CR 2 FORM 5735'-5975' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH PSI. TURN WELL OVER TO HES.</p>
13:18	1.00	14:18	FRAC	Frac. Job	<p>FRAC STG 4 PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/1287 PSI AT 13:55 BREAK DOWN 1572 PSI AT 10.3 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 1310 PSI. FLUSH W/ 5600 GAL. 30 BPM AT MP 1630 PSI. (BALL OUT). SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.9 BPM AT 2572 PSI. ISDP 1435 . FG .69. PERFS OPEN 40/45</p> <p>ISIP 1657 , FG .72, MR 72 BPM, AR 71.8 BPM, MP 2612 PSI, AP 2264 PSI 20/40 WHITE 150500 lbs 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 1423 BBL, 20# HYBOR G (16) 1496 BBL, BTR 3011 BBLs</p> <p>TURN OVER TO CASEDHOLE.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:18	1.00	15:18	WLWK	Wireline	PERF STG #5- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 5 INTO LUBE AND EQUALIZE 1500 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 4884'-4906'. RUN DOWN AND SET 5-1/2" CBP AT 5722' WITH 1500 PSI. PULL UP AND PERF CASTLE PEAK, UTELAND BUTTE, AND CR 1 FORM 5425'-5702' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1050 PSI. SHUT IN AND SECURE WELL FOR NIGHT.
15:18	13.70	05:00	LOCL	Lock Wellhead & Secure	SHUT IN AND SECURE WELL FOR NIGHT.
05:00	1.00	06:00	CTRL	Crew Travel	CREW TRAVEL HOME FOR NIGHT

**07-8-46 BTR 5/16/2014 06:00 - 5/17/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.10	06:06	CTRL	Crew Travel	CREW ARRIVE ON LOCATION AT 5:30AM
06:06	0.10	06:12	SMTG	Safety Meeting	DISCUSSED RED ZONES SMOKING AREAS CHEMICAL AREA AND MUSTER AREAS.
06:12	1.00	07:12	FRAC	Frac. Job	FRAC STG 5 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 1015 PSI AT 06:48 BREAK DOWN 1475 PSI AT 9.8 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.1 BPM AT 1226 PSI. FLUSH W/ 5120 GAL. 29.7 BPM AT 1830 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.3 BPM AT 2628 PSI. ISDP 1508 . FG .72 . PERFS OPEN 38/45  ISIP1673 , FG .74, MR 70.8 BPM, AR 70.7 BPM, MP 2683 PSI, AP 2393 PSI 100 MESH 13,518 lbs .75 ppg 20/40 WHITE 150,382 lbs 1.0, 2.0, 3.0, 3.5, 4.0 ppg SLK WTR1,348 BBL, 20# HYBOR G (16) 1,775 BBL, BTR 3216 BBLS  TURN OVER TO CASEDHOLLE
07:12	1.00	08:12	WLWK	Wireline	PERF STG #6- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 6 INTO LUBE AND EQUALIZE 1500 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 4884'-4906'. RUN DOWN AND SET 5-1/2" CBP AT 5414' WITH 1325 PSI. PULL UP AND PERF BLACK SHALE FACIES AND CASTLE PEAK FORM 5141'-5394' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1100 PSI. TURN WELL OVER TO HES.
08:12	1.00	09:12	FRAC	Frac. Job	FRAC STG 6 PRESSURE TEST LINES TO 9500 PSI. OPEN WELL W/ 1031 PSI AT BREAK DOWN 1226 PSI AT 10.0 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1150 PSI. FLUSH W/ 5034 GAL. 30.0 BPM AT 1500 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.2 BPM AT 1972 PSI. ISDP 1194 . FG .67. PERFS OPEN 45/45  ISIP1360 , FG .70, MR 71.2 BPM, AR 70.9 BPM, MP 2212 PSI, AP 1963 PSI 100 MESH 13,682 lbs .75 ppg 20/40 WHITE 148,018 lbs 1.0, 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 1282 BBL, 20# HYBOR G (16) 1788 BBL, BTR 3151 BBLS  TURN OVER TO CASEDHOLE.
09:12	1.00	10:12	WLWK	Wireline	KILL PLUG- PU 5-1/2" EXELIS PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 1300 PSI. RIH AND CORRELATE TO SHORT JT 4924'-4946. SET KILL PLUG AT 5046' WITH 1200 PSI. BLEED OFF AS POOH.
10:12	2.00	12:12	SRIG	Rig Up/Down	RDMO HES AND CASED HOLE. STACK WATER ON LOC.
12:12	17.80	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL FOR NIGHT

**07-8-46 BTR 5/17/2014 06:00 - 5/18/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL HOLD SAFETY MEETING.
07:00	1.50	08:30	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.
08:30	2.50	11:00	BOPI	Install BOP's	N/D FRAC TREE. N/U BOPE. R/U FLOOR & EQUIPMENT. SPOT IN CATWALK & PIPE RACKS. LOAD 230 JTS ON RACKS & TALLY.
11:00	3.00	14:00	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS 1 JT 2-7/8 TBG & S/N. RIH TO KILL PLUG @ 7590' P/U NEW 2-7/8 L-80 TBG.
14:00	4.00	18:00	GOP	General Operations	R/U POWER SWIVEL. FILL HOLE & TEST BOPE TO 2000 PSI, HELD.  D/O CBP @ 5046'. CFP- 600 PSI ON 20/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 5389'. C/O SAND & D/O CBP @ 5414'. CFP- 550 ON 20/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 5662'. C/O SAND & D/O CBP @ 5722'. CFP- 600 ON 20/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 5965'. C/O SAND & D/O CBP @ 5995'. CFP- 800 ON 20/64 CHOKE. R/D SWIVEL. EOT @ 6007'. TURN WELL OVER TO FLOWBACK. SDFN.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

**07-8-46 BTR 5/18/2014 06:00 - 5/19/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL HOLD SAFETY MEETING.
07:00	2.50	09:30	DOPG	Drill Out Plugs	CFP- 525 ON 20/64 CHOKE. RIH F/ 5995 W/ 4-3/4 BIT, TAG SAND @ 6240'. R/U SWIVEL. BREAK CIRC. C/O SAND & D/O CBP @ 6265'. FCP- 600 ON 20/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 6530'. C/O SAND & D/O CBP @ 6544'. FCP- 600 ON 20/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6845'. C/O SAND TO F/C @ 6869'. D/O F/C. C/O CMT TO 6910' PBD. 217 JTS. CIRC WELL CLEAN. R/D SWIVEL.
09:30	1.50	11:00	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 5038' & LAND TBG. 158 JTS TOTAL IN HOLE. 72 JOINTS LEFT ON PIPE RACKS
11:00	1.50	12:30	BOPI	Install BOP's	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF @ 4000 PSI. R/U TBG TO SALES LINE. TURN OVER TO FLOWBACK. SICP- 800, FTP - 750 ON 20/64 CHOKE.
12:30	1.50	14:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. CLEAN LOCATION.
14:00	2.00	16:00	RMOV	Rig Move	ROAD RIG TO STONES YARD SDFN.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

Form 3160-4  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____				5. Lease Serial No. 20G0005608	
2. Name of Operator BILL BARRETT CORPORATION    Contact: CHRISTINA HIRTLER E-Mail: chrtiler@billbarrettcorp.com				6. If Indian, Allottee or Tribe Name	
3. Address    1099 18TH STREET SUITE 2300 DENVER, CO 80202			3a. Phone No. (include area code) Ph: 303-312-8597		7. Unit or CA Agreement Name and No.
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 8 T4S R6W Mer UBM At surface    SWNE 1958FNL 1979FEL 40.149239 N Lat, 110.584536 W Lon  At top prod interval reported below    SWNE 1947FNL 1981FEL  At total depth    SWNE 1979FNL 1995FEL				8. Lease Name and Well No. 7-8-46 BTR	
14. Date Spudded 01/03/2014				15. Date T.D. Reached 04/15/2014	
16. Date Completed <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod. 05/18/2014				9. API Well No. 43-013-51702	
17. Elevations (DF, KB, RT, GL)* 5969 GL				10. Field and Pool, or Exploratory ALTAMONT	
11. Sec., T., R., M., or Block and Survey or Area    Sec 8 T4S R6W Mer UBM				12. County or Parish DUCHESNE	
13. State UT				18. Total Depth:    MD    7012 TVD    7011	
19. Plug Back T.D.:    MD    6870 TVD    6869				20. Depth Bridge Plug Set:    MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) MUD,CBL				22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)	

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
24.000	16.000 COND	65.0		80	80				
12.250	9.625 J-55	36.0		1218	1208	390	145		
8.750	5.500 P-110	17.0		7012	6961	1220	374	2582	

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	5035							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	5141	5662	5141 TO 6834	0.380	264	OPEN
B) WASATCH	5683	6834				
C)						
D)						

## 26. Perforation Record

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5141 TO 5662	GREEN RIVER SEE STAGES 5-6
5683 TO 6834	WASATCH SEE STAGES 1-5

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/18/2014	05/21/2014	24		516.0	614.0	893.0			FLows FROM WELL
Choke Size 24/64	Tbg. Press. Flwg. 875 SI	Csg. Press. 1600.0	24 Hr. Rate 	Oil BBL 516	Gas MCF 614	Water BBL 893	Gas:Oil Ratio 1190	Well Status POW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #249703 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

RECEIVED: Jun. 16, 2014



28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)  
SOLD

30. Summary of Porous Zones (Include Aquifers):					31. Formation (Log) Markers	
Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.						
Formation	Top	Bottom	Descriptions, Contents, etc.		Name	Top Meas. Depth
					GREEN RIVER MAHOGANY TGR3 DOUGLAS CREEK BLACK SHALE FACIES CASTLE PEAK UTELAND BUTTE WASATCH	1313 2089 3243 4090 4953 5130 5425 5681

32. Additional remarks (include plugging procedure):  
TOC was calculated by CBL, Conductor was cemented with grout. Attaches is the treatment data and logs. First gas sales 5/18/2014, oil sales were on 5/22/2014.

33. Circle enclosed attachments:			
1. Electrical/Mechanical Logs (1 full set req'd.)	2. Geologic Report	3. DST Report	4. Directional Survey
5. Sundry Notice for plugging and cement verification	6. Core Analysis	7 Other:	

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #249703 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal**

Name(*please print*) CHRISTINA HIRTLE Title PERMIT ANALYST

Signature (Electronic Submission) Date 06/16/2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**RECEIVED: Jun. 16, 2014**

**7-8-46 BTR**

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>				
<b>AMOUNT AND TYPE OF MATERIAL</b>				
<b><u>Stage</u></b>	<b><u>bbls Slurry</u></b>	<b><u>lbs Common White 100 Mesh Sand</u></b>	<b><u>lbs 20/40 Premium White</u></b>	<b><u>gal 15% HCl Acid</u></b>
1	3032		150600	4400
2	2975		150500	3900
3	2964		150400	3900
4	3011		150500	3900
5	3216	13518	150382	3900
6	3151	13682	134336	3400

\*Depth intervals for frac information same as perforation record intervals.

**07-8-46 BTR 4/8/2014 11:00 - 4/9/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com

**07-8-46 BTR 4/9/2014 06:00 - 4/10/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	DRILL ACTUAL F/149' - T/200'
07:30	2.50	10:00	8	REPAIR RIG	WORK ON PUMP #2, PLUMB FUEL LINE
10:00	6.00	16:00	2	DRILL ACTUAL	DRILL ACTUAL F/200' - T/609' - 409' @ 68.2"/HR. WOB = 14K, 50 RPM
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	8.00	00:30	2	DRILL ACTUAL	DRILL ACTUAL F/609' - T/1,218' - @ 76.1"/HR, WOB = 14K, 50RPM
00:30	1.00	01:30	5	COND MUD & CIRC	PUMP SWEEP, CIRCULATE
01:30	2.00	03:30	6	TRIPS	WIPER TRIP TO DRILL COLLARS, BACK TO BOTTOM
03:30	1.00	04:30	5	COND MUD & CIRC	PUMP SWEEP, CIRCULATE
04:30	1.50	06:00	6	TRIPS	TOOH / LDDP

**07-8-46 BTR 4/10/2014 06:00 - 4/11/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	6	TRIPS	TOOH/LDDP
07:00	1.50	08:30	20	DIRECTIONAL WORK	LAY DOWN DIR. TOOLS
08:30	4.50	13:00	12	RUN CASING & CEMENT	RUN 28 JTS. 1207' OF 9 5/8" J55 36# ST&C SURFACE CASING W/7 CENTRALIZERS
13:00	1.00	14:00	5	COND MUD & CIRC	CIRCULATE, RECIPROCATATE PIPE
14:00	4.00	18:00	12	RUN CASING & CEMENT	R/U, SAFETY MEETING, FILL LINES, TEST LINES TO 3800PSI, PUMP 20BBLs WATER SPACER, PUMP 40 BBL OF 10# SUPER FLUSH, PUMP 20 BBLs WATER SPACER BEHIND, PUMP 85 BBLs 150 SKS LEAD @ 11# 3.16 YLD, 19.43GPS, PUMP 60BBLs 240 SKS TAIL @ 14.8#, 1.37 YLD, 6.62GPS, DROP TOP PLUG, PUMP 50 BBLs DISPLACEMENT, DISPLACEMENT REACHED CEMENT, SLOW RATE TO 4BPM, RETURNS STARTED TO SLOW, SLOWED RATE TO 3BPM, LOST RETURNS WITH 57BBLs AWAY, GOT FULL RETURNS BACK WITH 70BBLs AWAY, SLOW RATE TO 2BPM TO BUMP PLUG, BUMP PLUG, FINAL CIRCULATIN PRESSURE 360 PSI, GOT 40 BBLs CEMENT TO SURFACE, CHECK FLOATS, FLOATS HELD, GOT 1BBL BACK TO THE TRUCK.
18:00	3.00	21:00	13	WAIT ON CEMENT	WAIT ON CEMENT, RIG UP 1", PUMP TOP OUT CEMENT 15.8 PPG, 1.15YIELD, 5.0 GPS, WASH PUMP & LINES, RIG DOWN
21:00	5.50	02:30	21	OPEN	CUT OFF CASING, WELD ON WELLHEAD
02:30	3.50	06:00	14	NIPPLE UP B.O.P	NIPPLE UP B.O.P.

**07-8-46 BTR 4/11/2014 06:00 - 4/12/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	14	NIPPLE UP B.O.P	NIPPLE UP BOP
07:00	3.50	10:30	15	TEST B.O.P	TEST LOWER KELLY VALVE, SAFETY VALVE, PIPE RAMS INSIDE VALVES, HCR, OUTSIDE KILL LINE VALVES, CHOKE LINE, CHECK VALVE, UPRIGHT GAGE VALVE, BLIND RAMS, AND INSIDE MANIFOLD VALVES ALL TO 5000PSI FOR 10 MIN. - TEST ANNULAR TO 1500PSI - SUPER CHOKE 500PSI 5MIN. - TEST CSG TO 1500PSI FOR 30MIN. TESTED USING B&C QUICK TEST.
10:30	0.50	11:00	21	OPEN	INSTALL WEAR BUSHING
11:00	1.50	12:30	20	DIRECTIONAL WORK	MAKE UP BIT, MM, & DIR. TOOLS, ORIENTATE
12:30	0.50	13:00	7	LUBRICATE RIG	RIG SERVICE
13:00	0.50	13:30	8	REPAIR RIG	WORK ON BRAKES
13:30	1.50	15:00	6	TRIPS	TIH, TAG CEMENT @1145'
15:00	2.00	17:00	2	DRILL ACTUAL	DRILL FLOAT & SHOE
17:00	0.50	17:30	2	DRILL ACTUAL	DRILL 20' NEW HOLE TO 1238'

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
17:30	0.50	18:00	5	COND MUD & CIRC	PUMP LCM PILL, RUN EMW TEST, MW=8.5 & EMW = 10.5 USE 129PSI TEST PRESSURE, LOST 2 PSI IN 5 MIN.
18:00	12.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/1238' - T/2516' - 1278' @ 106.5'/HR. WOB = 14K, 50-55RPM

**07-8-46 BTR 4/12/2014 06:00 - 4/13/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	DRILL ACTUAL F/2516' - T/3612' - 1096' @ 109.6'/HR. WOB = 14K, 55RPM
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	13.50	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/3612' - T/4666' - 1054' @ 78'/HR. WOB = 10-14K, 50-60RPM

**07-8-46 BTR 4/13/2014 06:00 - 4/14/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	DRILL ACTUAL F/4666' - T/5467' - 801' @ 76.3'/HR. WOB = 12K, 55RPM
16:30	1.50	18:00	21	OPEN	GAINED APPROX. 85 BBLS MUD, STARTED GETTING GAS & POSSUM BELLY BUBBLING OVER, SWITCHED TO GAS BUSTER THEN FLOW LINE BLEW APART, SHUT WELL IN WITH A SOFT SHUT IN, PASON CASING PRESSURE WAS NOT WORKING SO WE SWITCHED TO A REGULAR PRESSURE GAUGE, INITIAL CASING PRESSURE WAS 250 PSI.
18:00	5.50	23:30	5	COND MUD & CIRC	TANSFERED 10.1 MUD FROM UPRIGHTS TO ACTIVE, WHEN MW=9.4 WE STARTED PUMPING AND USING THE CHOKE, ALSO ADDING LCM, PUMPED WITH ONE PUMP AT 100SPM UNTIL WE GOT PRESSURE THEN SLOWED TO 60SPM, BY THE TIME WE GOT STAND PIPE PRESSURE THE CASING PRESSURE HAD GONE UP TO 700PSI, GAS CIRCULATED OUT MW TO 9.8 IN/OUT & LCM AT 25%, MADE ONE MORE CIRCULATION AND EVERYTHING WAS BACK TO NORMAL SO WE WENT BACK TO DRILLING.
23:30	6.50	06:00	2	DRILL ACTUAL	HAD TO DRILL BY HAND FOR 1 HR. AUTODRILLER NOT WORKING RIGHT. ALSO CASING PRESSURE SENSOR REPAIRED AT THIS TIME. DRILL ACTUAL F/5467' - T/5720' - 253' @ 38.9'/HR. WOB = 12K, RPM = 55

**07-8-46 BTR 4/14/2014 06:00 - 4/15/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	DRILL ACTUAL F/5720' - T/6310' - 590' @ 65.5'/HR. WOB = 14K, RPM = 55
15:00	0.50	15:30	7	LUBRICATE RIG	RIG SERVICE
15:30	14.50	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/6310' - T/6943' - 633' @ 43.7'/HR. WOB = 14K, RPM = 55-65

**07-8-46 BTR 4/15/2014 06:00 - 4/16/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	DRILL ACTUAL F/6943' - T/7012' TD
06:30	3.50	10:00	5	COND MUD & CIRC	PUMP HIGH VIS SWEEP, CIRCULATE, PULL 5 JTS. PUMP SLUG
10:00	3.00	13:00	6	TRIPS	SHORT TRIP TO 5300', BACK TO BOTTOM
13:00	1.50	14:30	5	COND MUD & CIRC	PUMP HIGH VIS SWEEP, CIRCULATE
14:30	6.00	20:30	6	TRIPS	TOOH/LDDP FOR LOGS
20:30	1.50	22:00	20	DIRECTIONAL WORK	L/D DIRECTIONAL TOOLS
22:00	5.50	03:30	11	WIRELINE LOGS	RUN OPEN HOLE LOGS
03:30	2.50	06:00	12	RUN CASING & CEMENT	PULL WEAR BUSHING, RIG UP FOR CASING, RUN CASING

**07-8-46 BTR 4/16/2014 06:00 - 4/17/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	5	COND MUD & CIRC	FILL PIPE, PRESSURED UP, COULD NOT CIRCULATE



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:30	1.50	08:00	12	RUN CASING & CEMENT	LAY DOWN CASING, BREAK FLOAT OFF AND REPLACE
08:00	1.00	09:00	12	RUN CASING & CEMENT	RUN 12 JTS. CASING WHEN STARTED GETTING FLOW, POSSUM BELLY STARTED BUBBLING OVER THE SIDES AND THERE WAS ABOUT A 40' FLARE, CSG PRESSURE WAS AT 200 PSI, ALREADY LINED UP ON CHOKE AND STARTED CHOKING BACK WHILE MIXING 10.2PPG MUD.
09:00	2.50	11:30	5	COND MUD & CIRC	CIRCULATE THRU CHOKE, AT 10:24 CSG PRESSURE = 566PSI, SPP = 544PSI, PUMP NO.1 60SPM, GAINED APPROX. 30 BBLS
11:30	1.00	12:30	12	RUN CASING & CEMENT	RUN CASING TO SURFACE SHOE STRIPPING THROUGH ANNULAR
12:30	1.00	13:30	5	COND MUD & CIRC	CIRCULATE OUT AT CASING SHOE(1200') WITH CHOKE, CASING PRESSURE = 135PSI
13:30	1.00	14:30	12	RUN CASING & CEMENT	OPEN ANNULAR TO 250PSI AND RUN CASING DOWN TO 2200'
14:30	1.00	15:30	5	COND MUD & CIRC	CIRCULATE OUT CSG. PRESSURE = 350PSI, 60 SPM, 11.3PPG IN/OUT, 310STROKES TO FILL PIPE AND HAD 50 PSI SPP THEN WENT AWAY.
15:30	1.00	16:30	12	RUN CASING & CEMENT	RUN CASING, OPENED CHOKE MORE UP TO 40-50% WHEN RUNING CASING BUT CASING PRESSURE CLIMBED FASTER HAD TO STOP RUNING PIPE.
16:30	2.00	18:30	5	COND MUD & CIRC	CIRCULATE OUT 600PSI CASING PRESSURE, BRING UP MW & BUILD VOLUME
18:30	1.00	19:30	5	COND MUD & CIRC	PUMP 10.5PPG MUD DOWN BACKSIDE OF WELL
19:30	3.50	23:00	12	RUN CASING & CEMENT	RUN CASING F/2988' - T/5446', PUMPED DOWN ANNULUS PERIODICALLY WHEN CASING PRESSURE STARTED TO CLIMB. FILL PIPE AND WASH THRU TIGHT SPOTS AT 4062' AND 4688'
23:00	1.50	00:30	12	RUN CASING & CEMENT	RUN CASING F/5446' - T/6982', PUMPED DOWN ANNULUS PERIODICALLY WHEN CASING PRESSURE STARTED TO CLIMB.
00:30	5.50	06:00	5	COND MUD & CIRC	PUMPED 10.1 PPG MUD DOWN HOLE TO TRY TO GET RETURNS AND CIRCULATE OUT GAS. NO RETURNS.  TOTAL CSG. = 157 JTS. 6960' OF 5 1/2" 17# P-110 LT&C W/ 2 MARKERS AND NO CENTRALIZERS

**07-8-46 BTR 4/17/2014 06:00 - 4/18/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	5	COND MUD & CIRC	PUMP 10.1PPG MUD DOWNHOLE @ 60SPM TO REGAIN CIRCULATION
08:30	5.00	13:30	12	RUN CASING & CEMENT	R/U CEMENT EQUIPMENT - S/M - Cement prod csg as follows: Press test lines to 5587 psi. Pump 40 bbls(39 sx) Tuned Spacer @10.5 ppg, 3.8 yld, 25.2 gps H2O. Shutdown, Finish Spacer, Shutdown, Mix and pump( 375 sx) Lead Tuned Lite cmt @ 11 ppg, 2.34 yld, 10.61 gps H2O. At 15 bbls into lead got returns back, Tail in w/1 bbls(845 sx) Econocem cmt @ 13.5 ppg, 1.45 yld, 6.91 gps H2O. Shutdown, wash lines to pit, drop plug. Displace w/160 bbls H2O w/Cla-web & Aldacide. At 63bbls Gone In Displacement Retrurns to surface, Bump Plug at 2307, Check Floats, Floats Held, 95 BBLS CEMENT TO SURFACE. Bled back 1.5bbls, R/D Halliburton
13:30	2.00	15:30	12	RUN CASING & CEMENT	SET SLIPS WITH 30K OVER STRING WT OF 105K
15:30	4.00	19:30	14	NIPPLE UP B.O.P	NIPPLE DOWN, CUT CASING, CLEAN MUD TANKS, RIG RELEASE AT 1800 4/17/2014

**07-8-46 BTR 4/21/2014 06:00 - 4/22/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. N/D 11" NITE CAP. N/U 7" 5K TBG HEAD & TEST VOID AND SEALS. N/U 7" NITE CAP. SECURE WELL.

**07-8-46 BTR 4/22/2014 06:00 - 4/23/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	MIRU HES. HSM. RIH W/ GR/JB TO TAG FILL AT 6836'. DRLG SHOWS FC AT 6869' (33' FILL). RUN CAST-M/RBT LOG. LOF FROM 6812' TO SURFACE. LOG SHOWS LIGHT CMT FROM TD TO SURFACE (AS REPORTED BY HES). MARKER JTS AT 4484'-4906' AND 6358'-6380'. RD HES. SECURE WELL. BATTERY UNDER CONSTRUCTION.

**07-8-46 BTR 5/12/2014 06:00 - 5/13/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDREL. NU 5" 10K FRAC VALVES. PRES TEST CSG TO 8400 PSI, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.
06:00	24.00	06:00	GOP	General Operations	HEAT FRAC LINE.

**07-8-46 BTR 5/13/2014 06:00 - 5/14/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com

**07-8-46 BTR 5/14/2014 06:00 - 5/15/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	SRIG	Rig Up/Down	ALL PERFS CORRELATED TO HES RMT/CBL DATED 4/11/14. GUNS ARE 3-1/8" EXP WITH SDP PERFECTA, 19 GR, .40" EHD, 30" PENT, 3 SPF ON 120" PHASING.  HSM. MIRU CASED HOLE. PERF STG 1-- PERF CR 4, CR 4A, AND CR 5, FORM 6574'-6834' WITH 45 HOLES IN 15' NET. SHUT IN AND SECURE WELL. MIRU HES FRAC FLEET. WELL SECURE
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	PERFORATED STAGE 1 LOCK AND SECURE WELL FOR NIGHT.

**07-8-46 BTR 5/15/2014 06:00 - 5/16/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.10	06:06	SMTG	Safety Meeting	Crew arrived on location 5:15AM had safety meeting 5:50AM discussed Red zones, smoking areas, muster areas
06:06	0.20	06:18	FRAC	Frac. Job	Primed and psi tested lines to 9,300psi.
06:18	1.00	07:18	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 200 PSI AT 06:15 BREAK DOWN 3241 PSI AT 12.3 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 2350 PSI. FLUSH W/ 6419 GAL. 30.0 BPM AT 2274 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.9 BPM AT 2718 PSI. ISDP 1701. FG .7. PERFS OPEN 43/45  PUMPED STAGE TO DESIGN.  20/40 WHITE 150,600 lbs 2.0, 3.0, 3.5, and 4.0 ppg SLK WTR 60,892 BBL, 20# HYBOR G (16) 62,046 BBL, BTR 127,338 BBLS  SHUT IN AND TURN OVER TO CASED HOLE.
07:18	1.00	08:18	WLWK	Wireline	PERF STG #2- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 1675 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6380 '-'. RUN DOWN AND SET 5-1/2" CBP AT 6544 ' WITH 1625 PSI. PULL UP AND PERF CR 3 AND CR 4 FORM 6278'-6524' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH PSI. TURN WELL OVER TO HES.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
08:18	1.00	09:18	FRAC	Frac. Job	<p>FRAC STG 2 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 600 PSI AT 8:32 BREAK DOWN 3472 PSI AT 9.8 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT PSI. FLUSH W/ 6130 GAL. 30.0 BPM AT 2200 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 69.8 BPM AT 2734 PSI. ISDP 1782 . FG .72. PERFS OPEN 45/45</p> <p>PUMPED STAGE TO DESIGN.</p> <p>20/40 WHITE 150500 lbs 2.0, 3.0, 3.5, and 4.0 ppg SLK WTR 60,485 BBL, 20# HYBOR G (16) 60,567 BBL, BTR 2975 BBLs</p> <p>SHUT IN AND TURN OVER TO CASEDHOLE.</p>
09:18	1.00	10:18	WLWK	Wireline	<p>PERF STG #3- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 1800 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 4884' - 4906'. RUN DOWN AND SET 5-1/2" CBP AT 6265' WITH 1800 PSI. PULL UP AND PERF CR 2 AND CR 3 FORM 6014'-6251' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH PSI. TURN WELL OVER TO HES.</p>
10:18	1.00	11:18	FRAC	Frac. Job	<p>FRAC STG 3 PRESSURE TEST LINES TO 9125 PSI. OPEN WELL W/ 1550 PSI AT 10:36AM BREAK DOWN 2410 PSI AT 10.2 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT PSI. FLUSH W/ 5872 GAL. BPM 30 AT 1625 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.9 BPM AT 2743 PSI. ISDP 1705 . FG .72. PERFS OPEN 44/45</p> <p>ISIP 1814, FG .73, MR 71.8 BPM, AR 71.7 BPM, MP 2820 PSI, AP 2469 PSI 20/40 WHITE 150,400 lbs 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 1424 BBL, 20# HYBOR G (16) 1,446 BBL, BTR 2,963 BBLs</p> <p>TURN OVER TO CASEDHOLE.</p>
11:18	2.00	13:18	WLWK	Wireline	<p>PERF STG #4- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 4884'-4906'. RUN DOWN AND SET 5-1/2" CBP AT 5995' WITH 1725 PSI. WENT TO PULL UP HOLE WIRELINE STILL STUCK ON PLUG HAD WIRELING KEEP TRYING TO PULL OFF OF PLUG, KEPT LINE WEIGHT UNDER 3,000LBS BLEED WELL OFF HAD THEM KEEP TRYING. HAD HES BRING PUMP RATE UP TO 5BPM TILL WE HIT 5,500LBS KICKED PUMP OUT BLEED WELL DOWN TO 2,000PSI AND WIRELINE BROKE FREE. PLUG SET AND PERFORATED ALL AS DESIGN. PULL UP AND PERF WASATCH, AND CR 2 FORM 5735'-5975' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH PSI. TURN WELL OVER TO HES.</p>
13:18	1.00	14:18	FRAC	Frac. Job	<p>FRAC STG 4 PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/1287 PSI AT 13:55 BREAK DOWN 1572 PSI AT 10.3 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 1310 PSI. FLUSH W/ 5600 GAL. 30 BPM AT MP 1630 PSI. (BALL OUT). SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.9 BPM AT 2572 PSI. ISDP 1435 . FG .69. PERFS OPEN 40/45</p> <p>ISIP 1657 , FG .72, MR 72 BPM, AR 71.8 BPM, MP 2612 PSI, AP 2264 PSI 20/40 WHITE 150500 lbs 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 1423 BBL, 20# HYBOR G (16) 1496 BBL, BTR 3011 BBLs</p> <p>TURN OVER TO CASEDHOLE.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:18	1.00	15:18	WLWK	Wireline	PERF STG #5- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 5 INTO LUBE AND EQUALIZE 1500 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 4884'-4906'. RUN DOWN AND SET 5-1/2" CBP AT 5722' WITH 1500 PSI. PULL UP AND PERF CASTLE PEAK, UTELAND BUTTE, AND CR 1 FORM 5425'-5702' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1050 PSI. SHUT IN AND SECURE WELL FOR NIGHT.
15:18	13.70	05:00	LOCL	Lock Wellhead & Secure	SHUT IN AND SECURE WELL FOR NIGHT.
05:00	1.00	06:00	CTRL	Crew Travel	CREW TRAVEL HOME FOR NIGHT

**07-8-46 BTR 5/16/2014 06:00 - 5/17/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.10	06:06	CTRL	Crew Travel	CREW ARRIVE ON LOCATION AT 5:30AM
06:06	0.10	06:12	SMTG	Safety Meeting	DISCUSSED RED ZONES SMOKING AREAS CHEMICAL AREA AND MUSTER AREAS.
06:12	1.00	07:12	FRAC	Frac. Job	FRAC STG 5 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 1015 PSI AT 06:48 BREAK DOWN 1475 PSI AT 9.8 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.1 BPM AT 1226 PSI. FLUSH W/ 5120 GAL. 29.7 BPM AT 1830 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.3 BPM AT 2628 PSI. ISDP 1508 . FG .72 . PERFS OPEN 38/45  ISIP1673 , FG .74, MR 70.8 BPM, AR 70.7 BPM, MP 2683 PSI, AP 2393 PSI 100 MESH 13,518 lbs .75 ppg 20/40 WHITE 150,382 lbs 1.0, 2.0, 3.0, 3.5, 4.0 ppg SLK WTR1,348 BBL, 20# HYBOR G (16) 1,775 BBL, BTR 3216 BBLS  TURN OVER TO CASEDHOLLE
07:12	1.00	08:12	WLWK	Wireline	PERF STG #6- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 6 INTO LUBE AND EQUALIZE 1500 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 4884'-4906'. RUN DOWN AND SET 5-1/2" CBP AT 5414' WITH 1325 PSI. PULL UP AND PERF BLACK SHALE FACIES AND CASTLE PEAK FORM 5141'-5394' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1100 PSI. TURN WELL OVER TO HES.
08:12	1.00	09:12	FRAC	Frac. Job	FRAC STG 6 PRESSURE TEST LINES TO 9500 PSI. OPEN WELL W/ 1031 PSI AT BREAK DOWN 1226 PSI AT 10.0 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1150 PSI. FLUSH W/ 5034 GAL. 30.0 BPM AT 1500 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.2 BPM AT 1972 PSI. ISDP 1194 . FG .67. PERFS OPEN 45/45  ISIP1360 , FG .70, MR 71.2 BPM, AR 70.9 BPM, MP 2212 PSI, AP 1963 PSI 100 MESH 13,682 lbs .75 ppg 20/40 WHITE 148,018 lbs 1.0, 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 1282 BBL, 20# HYBOR G (16) 1788 BBL, BTR 3151 BBLS  TURN OVER TO CASEDHOLE.
09:12	1.00	10:12	WLWK	Wireline	KILL PLUG- PU 5-1/2" EXELIS PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 1300 PSI. RIH AND CORRELATE TO SHORT JT 4924'-4946. SET KILL PLUG AT 5046' WITH 1200 PSI. BLEED OFF AS POOH.
10:12	2.00	12:12	SRIG	Rig Up/Down	RDMO HES AND CASED HOLE. STACK WATER ON LOC.
12:12	17.80	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL FOR NIGHT

**07-8-46 BTR 5/17/2014 06:00 - 5/18/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL HOLD SAFETY MEETING.
07:00	4.00	11:00	GOP	General Operations	R/U POWER SWIVEL. FILL HOLE & TEST BOPE TO 2000 PSI, HELD.  D/O CBP @ 5046'. CFP- 600 PSI ON 20/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 5389'. C/O SAND & D/O CBP @ 5414'. CFP- 550 ON 20/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 5662'. C/O SAND & D/O CBP @ 5722'. CFP- 600 ON 20/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 5965'. C/O SAND & D/O CBP @ 5995'. CFP- 800 ON 20/64 CHOKE. R/D SWIVEL. EOT @ 6007'. TURN WELL OVER TO FLOWBACK. SDFN.
11:00	1.50	12:30	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.
12:30	2.50	15:00	BOPI	Install BOP's	N/D FRAC TREE. N/U BOPE. R/U FLOOR & EQUIPMENT. SPOT IN CATWALK & PIPE RACKS. LOAD 230 JTS ON RACKS & TALLY.
15:00	3.00	18:00	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS 1 JT 2-7/8 TBG & S/N. RIH TO KILL PLUG @ 7590' P/U NEW 2-7/8 L-80 TBG.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

**07-8-46 BTR 5/18/2014 06:00 - 5/19/2014 06:00**

API 43-013-51702	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 7,012.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL HOLD SAFETY MEETING.
07:00	2.50	09:30	DOPG	Drill Out Plugs	CFP- 525 ON 20/64 CHOKE. RIH F/ 5995 W/ 4-3/4 BIT, TAG SAND @ 6240'. R/U SWIVEL. BREAK CIRC. C/O SAND & D/O CBP @ 6265'. FCP- 600 ON 20/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 6530'. C/O SAND & D/O CBP @ 6544'. FCP- 600 ON 20/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6845'. C/O SAND TO F/C @ 6869'. D/O F/C. C/O CMT TO 6910' PBD. 217 JTS. CIRC WELL CLEAN. R/D SWIVEL.
09:30	1.50	11:00	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 5038' & LAND TBG. 158 JTS TOTAL IN HOLE. 72 JOINTS LEFT ON PIPE RACKS
11:00	1.50	12:30	BOPI	Install BOP's	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF @ 4000 PSI. R/U TBG TO SALES LINE. TURN OVER TO FLOWBACK. SICP- 800, FTP - 750 ON 20/64 CHOKE.
12:30	1.50	14:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. CLEAN LOCATION.
14:00	2.00	16:00	RMOV	Rig Move	ROAD RIG TO STONES YARD SDFN.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.



# Payzone Directional

## End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 7-8-46 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Site:</b>	SECTION 8 T4S, R6W	<b>MD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Well:</b>	7-8-46 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b>	Fort Duchesne		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Southern Zone		

<b>Site</b>	SECTION 8 T4S, R6W		
<b>Site Position:</b>		<b>Northing:</b>	11,111,259.86 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,895,118.70 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40° 8' 47.430 N
		<b>Longitude:</b>	110° 35' 22.740 W
		<b>Grid Convergence:</b>	0.56 °

Well		7-8-46 BTR, SHL: 40° 8' 57.260 -110° 35' 4.330				
Well Position	+N/-S	0.0 usft	Northing:	11,112,269.30 usft	Latitude:	40° 8' 57.260 N
	+E/-W	0.0 usft	Easting:	1,896,539.70 usft	Longitude:	110° 35' 4.330 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	5,980.0 usft	Ground Level:	5,967.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	4/4/2014	11.18	65.71	51,974

<b>Design</b>	Actual			
<b>Audit Notes:</b>				
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b> 0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	217.42

<b>Survey Program</b>	<b>Date</b>	4/20/2014		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
230.0	7,012.0	Survey #1 (Wellbore #1)	MWD	MWD v3:standard declination



# Payzone Directional

## End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 7-8-46 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Site:</b>	SECTION 8 T4S, R6W	<b>MD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Well:</b>	7-8-46 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
230.0	0.44	82.81	230.0	-0.6	0.1	0.9	0.19	0.19	0.00	
323.0	0.53	149.39	323.0	-0.7	-0.2	1.4	0.58	0.10	71.59	
415.0	0.26	138.71	415.0	-0.5	-0.7	1.8	0.30	-0.29	-11.61	
507.0	0.66	181.82	507.0	0.0	-1.4	1.9	0.55	0.43	46.86	
600.0	0.75	188.32	600.0	0.9	-2.6	1.8	0.13	0.10	6.99	
703.0	1.05	176.02	703.0	2.2	-4.2	1.8	0.34	0.29	-11.94	
788.0	0.90	197.70	788.0	3.4	-5.6	1.6	0.46	-0.18	25.51	
872.0	0.75	207.70	871.9	4.6	-6.7	1.2	0.25	-0.18	11.90	
956.0	0.92	214.30	955.9	5.8	-7.7	0.5	0.23	0.20	7.86	
1,041.0	0.98	111.76	1,040.9	6.3	-8.6	0.8	1.74	0.07	-120.64	
1,125.0	1.14	207.84	1,124.9	6.9	-9.6	1.1	1.88	0.19	114.38	
1,271.0	0.57	250.11	1,270.9	9.0	-11.1	-0.2	0.56	-0.39	28.95	
1,355.0	0.18	326.00	1,354.9	9.3	-11.1	-0.7	0.66	-0.46	90.35	
1,439.0	0.00	254.10	1,438.9	9.2	-11.0	-0.8	0.21	-0.21	0.00	
1,524.0	0.50	24.00	1,523.9	8.9	-10.7	-0.6	0.59	0.59	0.00	
1,608.0	0.60	21.60	1,607.9	8.1	-10.0	-0.3	0.12	0.12	-2.86	
1,692.0	0.80	19.70	1,691.9	7.1	-9.0	0.0	0.24	0.24	-2.26	
1,777.0	1.14	19.71	1,776.9	5.8	-7.6	0.5	0.40	0.40	0.01	
1,861.0	1.45	13.38	1,860.9	4.0	-5.8	1.0	0.41	0.37	-7.54	
1,945.0	1.13	20.31	1,944.8	2.2	-4.0	1.6	0.42	-0.38	8.25	
2,030.0	0.92	33.37	2,029.8	0.7	-2.7	2.2	0.37	-0.25	15.36	
2,114.0	1.36	40.97	2,113.8	-0.9	-1.3	3.3	0.55	0.52	9.05	
2,198.0	0.97	29.55	2,197.8	-2.6	0.0	4.3	0.54	-0.46	-13.60	
2,283.0	1.14	3.23	2,282.8	-4.0	1.5	4.7	0.60	0.20	-30.96	
2,367.0	1.00	342.60	2,366.8	-5.2	3.0	4.5	0.48	-0.17	-24.56	
2,451.0	1.42	346.11	2,450.7	-6.2	4.8	4.0	0.51	0.50	4.18	



# Payzone Directional

## End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 7-8-46 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Site:</b>	SECTION 8 T4S, R6W	<b>MD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Well:</b>	7-8-46 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
2,536.0	1.41	344.94	2,535.7	-7.5	6.8	3.5	0.04	-0.01	-1.38	
2,620.0	1.27	343.67	2,619.7	-8.7	8.7	3.0	0.17	-0.17	-1.51	
2,704.0	1.40	340.40	2,703.7	-9.8	10.5	2.4	0.18	0.15	-3.89	
2,788.0	1.05	3.71	2,787.7	-11.0	12.3	2.1	0.72	-0.42	27.75	
2,873.0	0.75	353.90	2,872.6	-12.1	13.6	2.1	0.40	-0.35	-11.54	
2,957.0	0.40	315.80	2,956.6	-12.5	14.4	1.8	0.60	-0.42	-45.36	
3,041.0	0.26	30.78	3,040.6	-12.7	14.7	1.7	0.50	-0.17	89.26	
3,126.0	0.40	41.37	3,125.6	-13.2	15.1	2.0	0.18	0.16	12.46	
3,210.0	0.70	32.76	3,209.6	-14.0	15.8	2.5	0.37	0.36	-10.25	
3,294.0	0.60	9.70	3,293.6	-14.9	16.6	2.8	0.33	-0.12	-27.45	
3,378.0	0.66	44.05	3,377.6	-15.8	17.4	3.2	0.45	0.07	40.89	
3,463.0	0.26	48.05	3,462.6	-16.5	17.9	3.7	0.47	-0.47	4.71	
3,547.0	0.50	61.19	3,546.6	-17.0	18.2	4.2	0.30	0.29	15.64	
3,631.0	0.23	87.73	3,630.6	-17.4	18.4	4.7	0.37	-0.32	31.60	
3,716.0	0.92	75.26	3,715.6	-18.1	18.6	5.5	0.82	0.81	-14.67	
3,800.0	0.44	72.26	3,799.6	-18.9	18.8	6.5	0.57	-0.57	-3.57	
3,884.0	0.44	19.60	3,883.6	-19.5	19.2	6.9	0.46	0.00	-62.69	
3,968.0	0.30	11.70	3,967.6	-20.0	19.8	7.0	0.18	-0.17	-9.40	
4,053.0	0.50	8.40	4,052.6	-20.5	20.3	7.1	0.24	0.24	-3.88	
4,137.0	0.70	350.40	4,136.6	-21.2	21.2	7.1	0.32	0.24	-21.43	
4,218.0	0.62	348.59	4,217.6	-21.8	22.1	6.9	0.10	-0.10	-2.23	
4,306.0	0.40	7.14	4,305.6	-22.4	22.9	6.9	0.31	-0.25	21.08	
4,390.0	0.40	206.39	4,389.6	-22.3	22.9	6.8	0.94	0.00	-191.37	
4,474.0	0.70	208.20	4,473.6	-21.5	22.2	6.4	0.36	0.36	2.15	
4,559.0	1.50	198.10	4,558.6	-20.0	20.7	5.8	0.96	0.94	-11.88	
4,643.0	1.90	200.60	4,642.5	-17.6	18.3	5.0	0.48	0.48	2.98	
4,727.0	1.90	205.00	4,726.5	-14.9	15.8	3.9	0.17	0.00	5.24	





# Payzone Directional

## End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 7-8-46 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Site:</b>	SECTION 8 T4S, R6W	<b>MD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Well:</b>	7-8-46 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
4,811.0	1.80	216.80	4,810.4	-12.2	13.5	2.5	0.47	-0.12	14.05	
4,896.0	0.50	249.50	4,895.4	-10.6	12.3	1.4	1.65	-1.53	38.47	
4,980.0	0.75	235.87	4,979.4	-9.7	11.8	0.6	0.34	0.30	-16.23	
5,064.0	1.19	239.50	5,063.4	-8.4	11.1	-0.6	0.53	0.52	4.32	
5,149.0	0.92	257.41	5,148.4	-7.1	10.5	-2.1	0.50	-0.32	21.07	
5,233.0	0.66	232.50	5,232.4	-6.1	10.0	-3.1	0.51	-0.31	-29.65	
5,317.0	1.10	223.00	5,316.4	-4.8	9.2	-4.0	0.55	0.52	-11.31	
5,402.0	1.50	219.70	5,401.3	-2.9	7.7	-5.3	0.48	0.47	-3.88	
5,486.0	1.10	216.40	5,485.3	-1.0	6.2	-6.5	0.48	-0.48	-3.93	
5,570.0	0.75	208.10	5,569.3	0.4	5.1	-7.2	0.45	-0.42	-9.88	
5,655.0	1.01	209.24	5,654.3	1.6	3.9	-7.8	0.31	0.31	1.34	
5,739.0	0.97	188.98	5,738.3	3.0	2.6	-8.3	0.42	-0.05	-24.12	
5,823.0	1.58	196.76	5,822.3	4.7	0.8	-8.8	0.75	0.73	9.26	
5,908.0	1.63	193.95	5,907.2	6.9	-1.5	-9.4	0.11	0.06	-3.31	
5,992.0	1.40	212.70	5,991.2	9.0	-3.5	-10.2	0.65	-0.27	22.32	
6,076.0	1.42	204.71	6,075.2	11.1	-5.4	-11.2	0.24	0.02	-9.51	
6,161.0	1.50	200.90	6,160.2	13.2	-7.4	-12.1	0.15	0.09	-4.48	
6,245.0	1.01	189.03	6,244.1	14.9	-9.1	-12.6	0.66	-0.58	-14.13	
6,329.0	1.70	194.70	6,328.1	16.7	-11.0	-13.0	0.84	0.82	6.75	
6,414.0	0.80	201.20	6,413.1	18.4	-12.8	-13.5	1.07	-1.06	7.65	
6,498.0	0.70	210.40	6,497.1	19.5	-13.8	-14.0	0.19	-0.12	10.95	
6,582.0	0.66	215.75	6,581.1	20.5	-14.6	-14.6	0.09	-0.05	6.37	
6,667.0	1.01	198.61	6,666.1	21.7	-15.8	-15.1	0.50	0.41	-20.16	
6,751.0	0.80	204.10	6,750.1	22.9	-17.0	-15.6	0.27	-0.25	6.54	
6,835.0	0.70	179.58	6,834.1	23.9	-18.0	-15.8	0.40	-0.12	-29.19	
6,947.0	1.05	185.95	6,946.0	25.3	-19.7	-15.9	0.32	0.31	5.69	
7,012.0	1.05	185.95	7,011.0	26.4	-20.9	-16.0	0.00	0.00	0.00	



**Payzone Directional**  
End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 7-8-46 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Site:</b>	SECTION 8 T4S, R6W	<b>MD Reference:</b>	7-8-46 BTR @ 5980.0usft (Capstar 328)
<b>Well:</b>	7-8-46 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

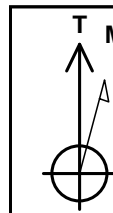
Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)

Checked By: _____	Approved By: _____	Date: _____
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Sundry Number: 52185 API Well Number: 43013517020000

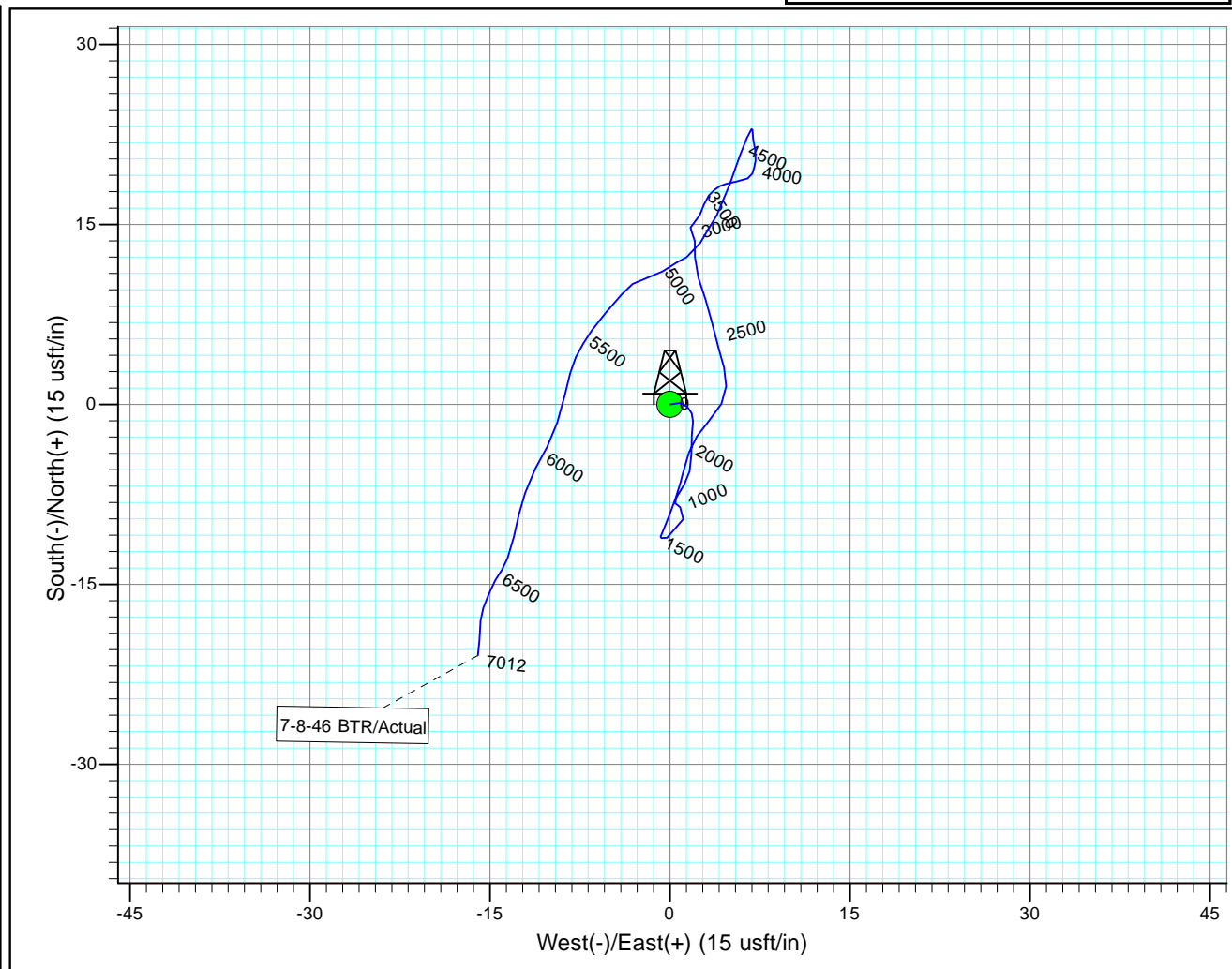
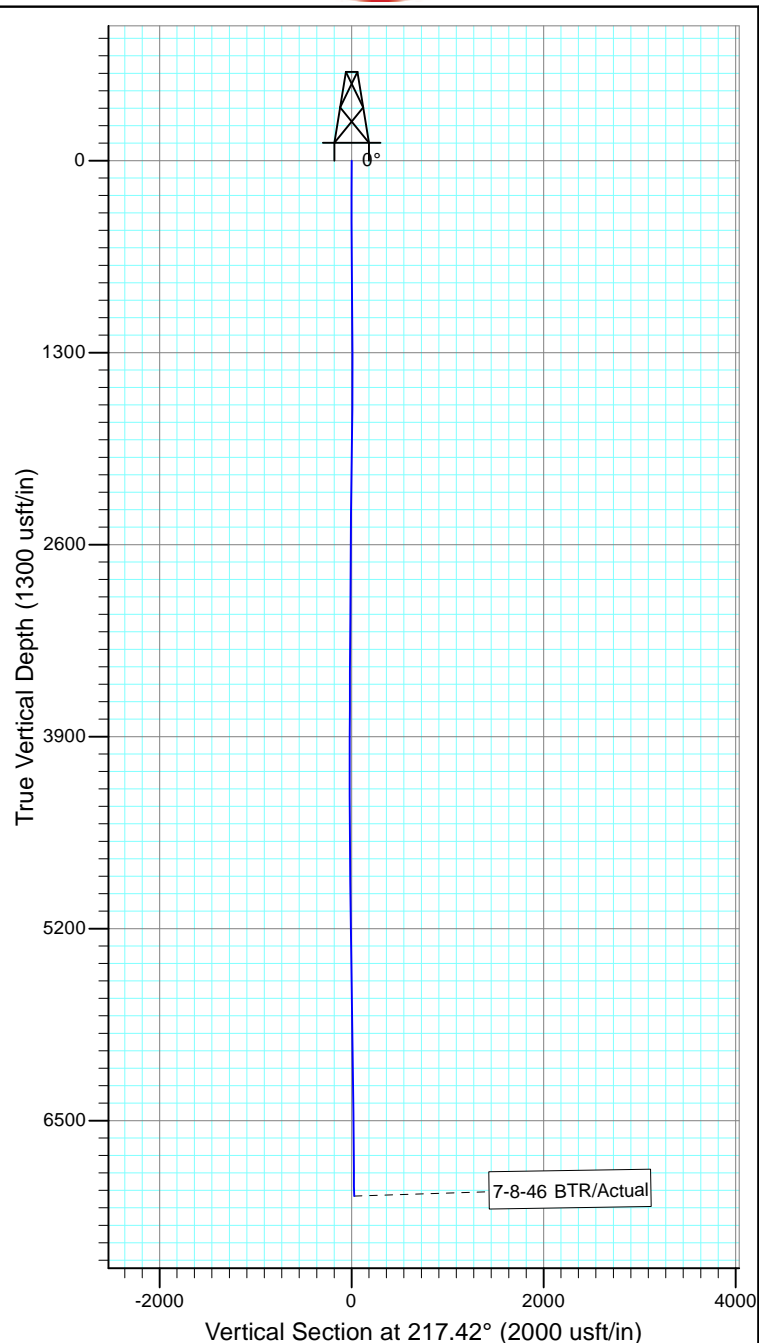


Project: Fort Duchesne  
Site: SECTION 8 T4S, R6W  
Well: 7-8-46 BTR  
Wellbore: Wellbore #1  
Design: Actual



Azimuths to True North  
Magnetic North: 11.18°

Magnetic Field  
Strength: 51973.7snT  
Dip Angle: 65.71°  
Date: 4/4/2014  
Model: IGRF2010



Design: Actual (7-8-46 BTR/Wellbore #1)

Created By: Matthew Linton

Date: 7:49, April 20 2014

THIS SURVEY IS CORRECT TO THE BEST OF  
MY KNOWLEDGE AND IS SUPPORTED  
BY ACTUAL FIELD DATA

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626523
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 7-8-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1958 FNL 1979 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 08 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013517020000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text" value="Lease"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>8/6/2014</b>			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 The tribal lease has been earned for this well. The new lease number is 1420H626523.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 August 06, 2014

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/6/2014	

Effective Date: 11/1/2016

<b>FORMER OPERATOR:</b>	<b>NEW OPERATOR:</b>
Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202	Rig II, LLC 1582 West 2600 South Woods Cross, UT 84087
CA Number(s):	Unit(s):

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

**OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
3. New operator Division of Corporations Business Number: 8256968-0160

**REVIEW:**

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
3. Reports current for Production/Disposition & Sundries: 11/2/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

**NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000712
2. Indian well(s) covered by Bond Number: LPM 922467
3. State/fee well(s) covered by Bond Number(s): 9219529

**DATA ENTRY:**

1. Well(s) update in the **OGIS** on: 11/7/2016
2. Entity Number(s) updated in **OGIS** on: 11/7/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
6. Surface Facilities update in **RBDMS** on: N/A

**COMMENTS:**



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SWD 9-36 BTR	9	030S	060W	4301350646	18077	Indian	Fee	WD	A
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	A
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	A
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040S	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
8H-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	OW	APD
LC TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	OW	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	OW	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	OW	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	OW	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
LC TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	OW	APD
LC TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	OW	APD
LC TRIBAL 8H-30-45	30	040S	050W	4301351277		Indian	Indian	OW	APD
LC TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
LC TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	OW	APD
LC TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
LC TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
LC TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
LC TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
LC TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
LC TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
LC TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	OW	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420		Indian	Fee	OW	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
LC TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD

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14-12D-45 BTR	12	040S	050W	4301351444		Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445		Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446		Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450		Indian	State	OW	APD
LC TRIBAL 16-34D-46	34	040S	060W	4301351451		Indian	State	OW	APD
16-12D-45 BTR	12	040S	050W	4301351452		Indian	Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351453		Indian	Indian	OW	APD
LC TRIBAL 1-35D-46	35	040S	060W	4301351454		Indian	Fee	OW	APD
16-25D-37 BTR	25	030S	070W	4301351455		Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	28	040S	060W	4301351462		Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	030S	070W	4301351494		Indian	Fee	OW	APD
7-13D-45 BTR	13	040S	050W	4301351497		Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	040S	060W	4301351515		Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040S	060W	4301351543		Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598		Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030S	070W	4301351610		Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613		Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616		Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617		Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619		Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620		Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624		Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625		Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627		Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628		Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629		Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639		Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640		Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641		Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	080W	4301351643		Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644		Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	080W	4301351645		Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646		Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654		Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656		Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657		Indian	Fee	OW	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658		Indian	Fee	OW	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659		Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661		Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040S	060W	4301351663		Indian	Fee	OW	APD
3-29D-36 BTR	29	030S	060W	4301351665		Indian	Fee	OW	APD

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LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
LC Tribal 5-24D-46	24	040S	060W	4301351668	Indian	Indian	OW	APD
LC TRIBAL 6-12D-58	12	050S	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
LC TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	030S	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	030S	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	030S	050W	4301351806	Indian	Fee	OW	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	030S	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	030S	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
LC Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
LC Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	030S	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	030S	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	030S	060W	4301351872	Indian	Fee	OW	APD
8-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
LC Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	040S	050W	4301352001	Indian	Indian	OW	APD
LC Tribal 8-22D-45	22	040S	050W	4301352002	Indian	Indian	OW	APD
LC Tribal 8-25D-45	25	040S	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	030S	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	OW	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	040S	070W	4301352055	Indian	Indian	OW	APD
LC Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	OW	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	040S	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	040S	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	030S	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	030S	070W	4301352116	Indian	Fee	OW	APD

From: Bill Barrett Corporation

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LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
7-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
LC Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
LC Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
LC Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
LC Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
LC Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
15-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
13-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
BTR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
4-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	OW	APD
1-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
LC TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	OW	APD
LC Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
LC Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
LC Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
LC Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
LC Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
LC Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
LC Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
LC Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
LC Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
LC Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
LC Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
LC Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
LC Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
LC Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
LC Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
LC Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
LC Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
LC Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
LC Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
LC Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	OW	APD
LC Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
LC Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
LC Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
LC Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
LC Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
LC Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

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LC Tribal 7-24D-46	24	040S	060W	4301353134		Indian	Indian	OW	APD
LC Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
LC Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
LC FEE 14-26D-47	26	040S	070W	4301353294		Fee	Indian	OW	APD
LC Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
LC Fee 1H-33-47	32	040S	070W	4301353309		Fee	Indian	OW	APD
LC FEE 14-2D-58	2	050S	080W	4301353312		Fee	Indian	OW	APD
LC FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
LC Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
16-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
LC Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
LC Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
LC Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
LC Fee 5-35D-47	35	040S	070W	4301353334		Fee	Indian	OW	APD
13-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
14-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
6-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
5-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
5-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
9-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
5-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
1-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
7-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
LC TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
7-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
LC TRIBAL 12H-28-46	28	040S	060W	4301333631	18132	Indian	Indian	GW	P
LC TRIBAL 13H-21-46	21	040S	060W	4301333632	18107	Indian	Indian	GW	P
12-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
5-5-46 BTR	5	040S	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	030S	060W	4301333642	16675	Indian	Fee	GW	P
14-29-36 BTR	29	030S	060W	4301333643	16725	Indian	Fee	OW	P
14-30-36 BTR	30	030S	060W	4301333644	16701	Indian	Fee	GW	P
7-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	P
LC TRIBAL 5-21D-46	21	040S	060W	4301333658	18887	Indian	Indian	OW	P
5-20-46 DLB	20	040S	060W	4301333659	18750	Indian	Indian	GW	P
LC TRIBAL 13H-20-46	20	040S	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	040S	060W	4301333806	16890	Indian	Indian	GW	P
7-8-45 BTR	8	040S	050W	4301333820	16974	Indian	Indian	OW	P



From: Bill Barrett Corporation

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1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	P
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	OW	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	P
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	040S	050W	4301334089	17507	Indian	Indian	OW	P
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	OW	P
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	P
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	P
1-9-45 BTR	9	040S	050W	4301334101	17910	Indian	Indian	OW	P
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	OW	P
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	P
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	P
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	OW	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	OW	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	P
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	OW	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	P
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	OW	P
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	OW	P
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	OW	P
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	OW	P
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	P
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	P
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	P
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	P
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	P
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	P
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	P
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	P
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	P
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	P
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	P
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	P
7-26-37 BTR	26	030S	070W	4301350641	18131	Indian	Fee	OW	P
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	P
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	OW	P
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	P
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	P
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	P
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	P
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	P
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	P
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	OW	P
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	OW	P
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	P
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	P
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	P
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	P
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	P
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	P
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	OW	P
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	P
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	OW	P
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	P
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	OW	P
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	OW	P
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	P
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	P
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	P
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	P
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	P
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	P
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	P
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	P
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	P
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	P
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	P
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	040S	050W	4301351278	18627	Indian	Indian	OW	P
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	P
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	P
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	OW	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	OW	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	OW	P
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	P
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	P
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	P
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	P
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	P
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	P
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	P
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	P
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	P
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	P
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	P
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	P
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	OW	P
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	OW	P
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	P
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	P
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030S	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	030S	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	030S	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030S	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	030S	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D-36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

**New Operator Contact information:**

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
Telephone: (801) 683-4245  
Fax: (801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley  
Permit Analyst

**RECEIVED**  
OCT 21 2016  
DIV. OF OIL, GAS & MINING



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
(see attached well list)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

N/A

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
(see attached well list)

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

2. NAME OF OPERATOR:

RIG II, LLC

N4055

3. ADDRESS OF OPERATOR:

1582 West 2600 South

CITY Wood Cross

STATE UT

ZIP 84087

PHONE NUMBER:

(801) 683-4245

4. LOCATION OF WELL

FOOTAGES AT SURFACE: (see attached well list)

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

11/1/2016

☐ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☒ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☐ OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC

1582 West 2600 South

Woods Cross, Utah 84087-0298

801-683-4245

(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N4165

Duane Zavala

NAME (PLEASE PRINT)

Duane Zavala

SIGNATURE

Senior Vice President -

EH&S, Government and Regulatory Affairs

RIG II, LLC

Jesse McSwain

NAME (PLEASE PRINT)

Jesse McSwain

SIGNATURE

Manager

NAME (PLEASE PRINT) Jesse McSwain

TITLE Manager

SIGNATURE

Jesse McSwain

DATE

10/20/16

(This space for State use only)

APPROVED

NOV 07 2016

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**Request to Transfer Application or Permit to Drill**

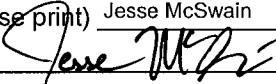
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	(See attached list)
<b>API number:</b>	
<b>Location:</b>	Qtr-Qtr:                      Section:                      Township:                      Range:
<b>Company that filed original application:</b>	Bill Barrett Corporation
<b>Date original permit was issued:</b>	
<b>Company that permit was issued to:</b>	Bill Barrett Corporation

Check one	Desired Action:
	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-LUDGM / UTB000712-BLM / LPM9224670-BIA</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain Title Manager  
Signature  Date 10/20/16  
Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

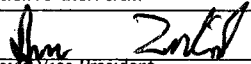
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

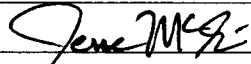
Well Name and Number <b>6-32-36 BTR SWD</b>	API Number <b>4301350921</b>
Location of Well  Footage : <b>1628 FNL 1553 FWL</b> County : <b>DUCHENSE</b>  QQ, Section, Township, Range: <b>SENW    32    3S    6W</b> State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

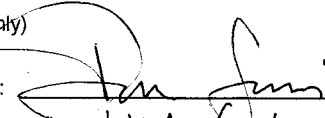
**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadii</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President -</u>
Phone: <u>(303) 293-9100</u>	Title: <u>EH&amp;S, Government and Regulatory Affairs</u>
Comments:	Date: <u>10/20/16</u>

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by:   
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

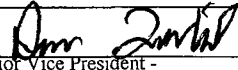
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

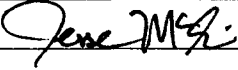
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION  
Address: 1099 18th Street Ste 2300  
city DENVER state CO zip 80202  
Phone: (303) 293-9100  
Comments:


Name: Duane Zavadii  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

NEW OPERATOR

Company: RIG II, LLC  
Address: 1582 West 2600 South  
city Wood Cross state UT zip 84087  
Phone: (801) 683-4245  
Comments:

Name: Jesse McSwain  
Signature:   
Title: Manager  
Date: 10/20/16

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

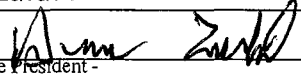
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

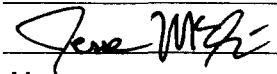
Well Name and Number <b>SWD 9-36 BTR</b>	API Number <b>4301350646</b>
Location of Well  Footage : <b>0539 FSL 0704 FEL</b>  County : <b>DUCHESNE</b>  QQ, Section, Township, Range: <b>SESE 9 3S 6W</b>  State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadi</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&amp;S, Government and Regulatory Affairs</u>
Phone: <u>(303) 293-9100</u>	Date: <u>10/20/16</u>
Comments:	

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Title: \_\_\_\_\_

Comments:

*This well was approved by USEPA.  
EPA approval will be required.*